



 **TayTech[®]**
advanced automation solutions

2020 CATALOGUE

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Controlling Future



About Us

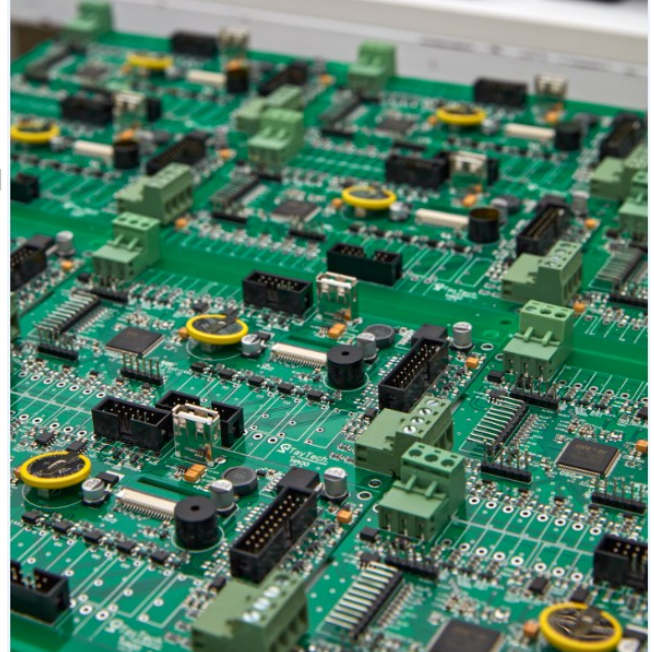
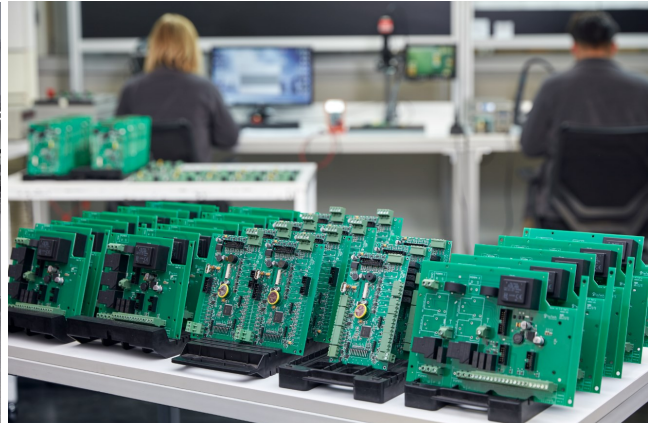
Our company has been operating for many years and has a particular expertise in the production of pump control panels. With our experienced and trained staff, we offer the best service to our valued customers at affordable prices and for this purpose, we continuously update ourselves with the latest technologies and machineries.

Controlling Future



Production Policy

In our production line, in accordance to our customers needs, our production line consists of following; Automatic transfer switch panels, fire fighting control panels and booster sets control panels, water and waste water submersible pump control panels, automation systems and all kinds of pump control panels, DOL, classic star-delta, frequency controlled and soft starters. Our products are produced as a result of the works carried out with the great care at each stage and are subjected to final test, are recorded, reported and presented to our valuable customers.



Production Policy

Our products are produced as a result of the works carried out with the great care at each stage and are subjected to final test, are recorded, reported and presented to our valuable customers.



advanced automation solutions

Controlling Future



Innovation and Quality

Our company has been operating for many years and has a particular expertise in the production of pump control panels. With our experienced and trained staff, we offer the best service to our valued customers at affordable prices and for this purpose, we continuously update ourselves with the latest technologies and machineries.



Innovation and Quality

Taytech aims to provide high quality and reliable products for every customer with each product. We always follow up the technical or national regulations and make a tailor-made products to response our customer demands in short time.

Our qualified team members offer presales consultancy or after sales service whenever you need.

Choosing the Correct Control Panel

What is a Control Panel?

Pump controllers monitor flow and/or level variables and control a pump accordingly to maintain the desired levels. Pump control can include simply turning a pump on and off or more advanced controls for pump speed, output pressure, etc. Installation is easy.

Products that provide level or pressure control are also available. Level controllers monitor, regulate, and control liquid or solid levels in a process. Pressure controllers accept inputs from pressure sensors, transmitters, gauges, and other devices. These pump controllers then adjust and control the pressure to maintain or achieve a desired level.

Some pump controllers are printed circuit boards (PCB) that can be plugged directly into a computer backplane. Others attach to a panel or bolt onto a chassis, wall, cabinet, or enclosure; mount in racks and include hardware such as rail guides, flanges, or tabs; or mount on a standard DIN rail. Benchtop or floor-standing pump controllers with a full casing or cabinet and an integral interface are also available.

To choose the right control panel, there are several informations that require to clarify;

- The Number of inputs: The signals is sent by devices such as switches, sensors etc.
- The Number of Outputs: The controller sent to the signals to the valves, contactors etc to start, run and stop for controlling the process
- Types of Input: The characteristic of input must be identify which are:
 - DC Voltages
 - AC Voltages
 - Signal types (4-20mA, 0-10, Resistor etc)
 - Switch or relay type
- Types of Outputs: The characteristic of input must be identify which are:
 - Supply Voltages
 - Switch or relay type
 - Pulses or frequencies
- Type of load: Pump, motor, etc.
- Power of load: kw or horse power with nominal current, frequencies
- Type of application: Fire Fighting, Clean water, waste water, pressurisation, emptying, filling, heating or cooling process etc.
- Optionals required: Alarm outputs, comminucations, extra inputs, outputs, etc.

In general the correct selection of the electrical panel would need the most amount of information possible from customer acording to their applications.



Electronic Control Panels

Includes an electronic board that is able to adjust all parameters, control the functions, display alarms and events. These models controls up to 4 motors in simultaneously.

Direct Start Series Control Panel

Direct On Line starter is the simplest kind of method to start the motor that connects the motor directly to the power source through single or three phase.



★ Smart Box

Controller with microprocessor for controlling 1 pump single phase pumps. Smart Box allows you to manage your system, configure the parameters, logs events and messages with practicly and multifunctional.(emptying, filling in clean water applications)

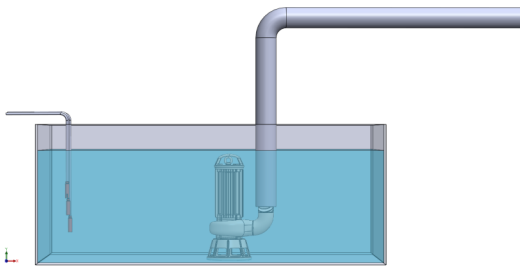


- ◇ Smart Box Panels are mounted in a specially designed IP 55 box that made of ABS material.
- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Different types of connections to start and stop motor such as; flow switch and pressure switches.

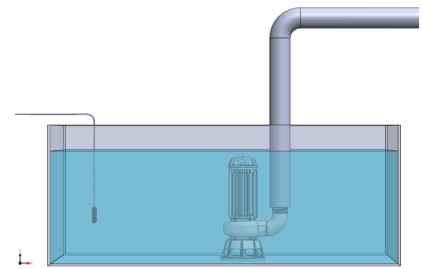
Technical Features

- Thermoplastic (ABS) / IP 55
- Power supply 1-50/60Hz 230V \pm %15
- 128 x 64 LCD Graphical Display
- Green LED for Motor Running / Red LED for failures
- NO Contact for start
- Volt, Ampere, Alarms, Events and Date & Time Screen on Home Page
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Dry running protection
- Displays pump run time
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- MODBus Connection

Applications



Level Electrode



Floater

Technical Data

Smart Box

Smart Box	CODE	VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
SmartBox / Mono	10001	1 - 230	2.2	3	0-18	18	230	130	120	ABS	

★ Smart Booster

Controller with microprocessor for controlling up to 2 pump single or three-phase booster pumps. Booster controller allows you to manage your system, configure the parameters, logs events and messages with practically and multifunctional. (For pressurization in clean water applications)

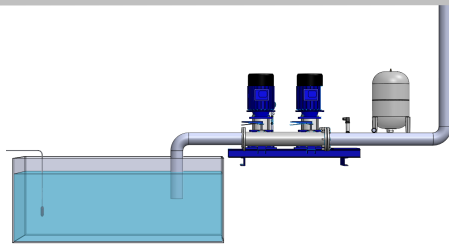


- ◇ Smart Booster Panels are mounted in a specially designed IP 55 box that made of ABS material.
- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Different types of connections to start and stop motor such as; pressure switches or pressure sensors

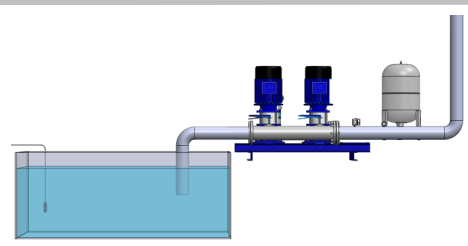
Technical Features

- Thermoplastic (ABS) / IP 55
- Power supply 1-50/60Hz 230V \pm %15
- Power supply 3-50/60Hz 400V \pm %15
- 128 x 64 LCD Graphical Display
- Green LED for Motor Running / Red LED for failures
- Input for start command (Pressure switch or sensors)
- Volt, Ampere, Alarms, Pressure, Events and Date & Time Screen on Home Page
- Displays Auto—Man Status
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Motor starting time
 - Dry running protection
- Main switch with locking mechanism
- Motor protection fuses
- Displays pump run time
- Display and adjust to Maintenance time
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- MODBus Connection

Applications



Pressure Transmitter



Pressure Switch

Technical Data

Smart Booster 1

Smart Booster 1	CODE	VOLTAGE	MAX		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Smart Booster 1 / Mono	1001	1 - 230	2.2	3	0-18	18	310	250	130	ABS	
Smart Booster 1 - 4/ Tri	11001	3 - 400	4	5.5	0-8.6	8.6	310	250	130	ABS	
Smart Booster 1 - 5.5 / Tri	11002	3 - 400	5.5	7.5	0-11.6	11.6	310	250	130	ABS	
Smart Booster 1 - 7.5 / Tri	11003	3 - 400	7.5	10	0-15.8	15.8	310	250	130	ABS	
Smart Booster 1 - 11 / Tri	11004	3 - 400	11	15	0-25	25	310	250	130	ABS	
Smart Booster 1 - 15 / Tri	11005	3 - 400	15	20	0-32	32	310	250	130	ABS	

Smart Booster 2

Smart Booster 2	CODE	VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Smart Booster 2 / Mono	1021	1 - 230	2.2	3	0-18	18	310	250	130	ABS	
Smart Booster 2 - 4/ Tri	11201	3 - 400	4	5.5	0-8.6	8.6	310	250	130	ABS	
Smart Booster 2 - 5.5 / Tri	11202	3 - 400	5.5	7.5	0-11.6	11.6	310	250	130	ABS	
Smart Booster 2 - 7.5 / Tri	11203	3 - 400	7.5	10	0-15.8	15.8	310	250	130	ABS	
Smart Booster 2 - 11 / Tri	11204	3 - 400	11	15	0-25	25	310	250	130	ABS	
Smart Booster 2 - 15 / Tri	11205	3 - 400	15	20	0-32	32	310	250	130	ABS	

*It is possible to realize the panel for 18.5 kW and largest capacity according to demand

**Please contact us for custom design production

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Pressure Transmitter



Model	Voltage (V)	Range
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

★ Smart Wastewater

Controller with microprocessor for controlling up to 2 pump single or three-phase wastewater pumps. Wastewater controller allows you to manage your system, configure the parameters, logs events and messages with practically and multifunctional. (Emptying, filling in wastewater applications)

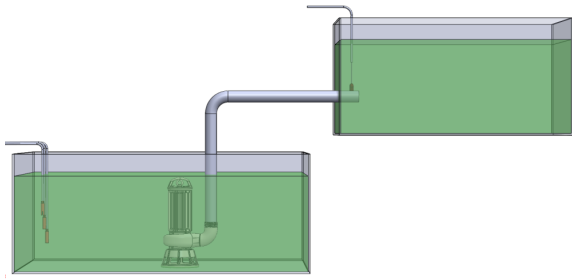


- ◇ Smart Wastewater Panels are mounted in a specially designed IP 55 box that made of ABS material.
- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Different types of connections to start and stop motor such as; pressure switches, float switch or level electrode

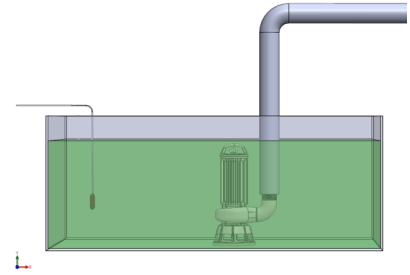
Technical Features

- Thermoplastic (ABS) / IP 55
- Power supply 1-50/60Hz 230V \pm %15
- Power supply 3-50/60Hz 400V \pm %15
- 128 x 64 LCD Graphical Display
- Green LED for Motor Running / Red LED for failures
- Input for start command (Float switch or level electrode)
- Displays Auto—Man Status
- Volt, Ampere, Alarms, Events and Date & Time Screen on Home Page
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Motor starting time
 - Over Float function
 - Dry running protection
 - Seal Leakage status
- Motor protection fuses
- Main switch with locking mechanism
- Displays pump run time
- Display and adjust to Maintenance time
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- MODBus Connection

Applications



Level Electrode and Floater Control



Floater Control

Technical Data

Smart Wastewater 1

Smart Wastewater 1		VOLTAGE	MAX		CURRENT		BOX DIMENSIONS				WEIGHT
	CODE	V-	kW	Hp	Range	Max	D	E	G	Material	KG
Smart Wastewater 1 / Mono	1031	1 - 230	2.2	3	0-18	18	310	250	130	ABS	
Smart Wastewater 1 - 4/ Tri	12001	3 - 400	4	5.5	0-8.6	8.6	310	250	130	ABS	
Smart Wastewater 1 - 5.5 / Tri	12002	3 - 400	5.5	7.5	0-11.6	11.6	310	250	130	ABS	
Smart Wastewater 1 - 7.5 / Tri	12003	3 - 400	7.5	10	0-15.8	15.8	310	250	130	ABS	
Smart Wastewater 1 - 11 / Tri	12004	3 - 400	11	15	0-25	25	310	250	130	ABS	
Smart Wastewater 1 - 15 / Tri	12005	3 - 400	15	20	0-32	32	310	250	130	ABS	

Smart Wastewater 2

Smart Wastewater 2		VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
	CODE	V-	kW	Hp	Range	Max	D	E	G	Material	KG
Smart Wastewater 2 / Mono	1041	1 - 230	2.2	3	0-18	18	310	250	130	ABS	
Smart Wastewater 2 - 4/ Tri	12201	3 - 400	4	5.5	0-8.6	8.6	310	250	130	ABS	
Smart Wastewater 2 - 5.5 / Tri	12202	3 - 400	5.5	7.5	0-11.6	11.6	310	250	130	ABS	
Smart Wastewater 2 - 7.5 / Tri	12203	3 - 400	7.5	10	0-15.8	15.8	310	250	130	ABS	
Smart Wastewater 2 - 11 / Tri	12204	3 - 400	11	15	0-25	25	310	250	130	ABS	
Smart Wastewater 2 - 15 / Tri	12205	3 - 400	15	20	0-32	32	310	250	130	ABS	

*It is possible to realize the panel for 18.5 kW and largest capacity according to demand

**Please contact us for custom design production

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Voltage (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

★ Smart Bore Hole

Controller with microprocessor for controlling up to 2 pump single or three-phase wastewater pumps. Bore Hole controller allows you to manage your system, configure the parameters, logs events and messages with practically and multifunctional. (Emptying, filling clean water applications)

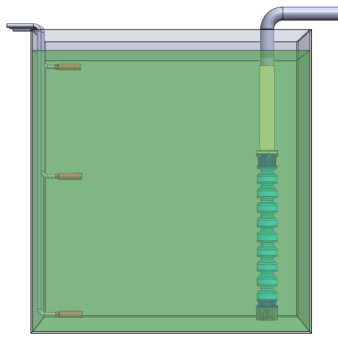


- ◇ Smart Bore Hole Panels are mounted in a specially designed IP 55 box that made of ABS material.
- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Different types of connections to start and stop motor such as; pressure switches, float switch or level electrode

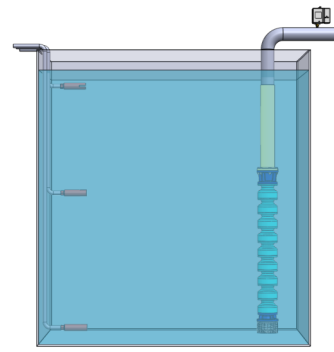
Technical Features

- Thermoplastic (ABS) / IP 55
- Main switch with locking mechanism
- Power supply 1-50/60Hz 230V \pm %15
- Power supply 3-50/60Hz 400V \pm %15
- 128 x 64 LCD Graphical Display
- Green LED for Motor Running / Red LED for failures
- Input for start command (level electrode)
- Volt, Ampere, Alarms, Events and Date & Time Screen on Home Page
- Displays Auto—Man Status
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Motor starting time
 - Over Float function
 - Dry running protection
- Motor protection fuses
- Displays pump run time
- Display and adjust to Maintenance time
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- MODBus Connection

Applications



Level Electrode



Level Electrode and Pressure Switch

Technical Data

Smart Bore Hole 1

Smart Bore Hole 1	CODE	VOLTAGE		MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG	
Smart Bore Hole 1 / Mono	1051	1 - 230	2.2	3	0-18	18	310	250	130	ABS		
Smart Bore Hole 1 - 4/ Tri	13001	3 - 400	4	5.5	0-8.6	8.6	310	250	130	ABS		
Smart Bore Hole 1 - 5.5 / Tri	13002	3 - 400	5.5	7.5	0-11.6	11.6	310	250	130	ABS		
Smart Bore Hole 1 - 7.5 / Tri	13003	3 - 400	7.5	10	0-15.8	15.8	310	250	130	ABS		
Smart Bore Hole 1 - 11 / Tri	13004	3 - 400	11	15	0-25	25	310	250	130	ABS		
Smart Bore Hole 1 - 15 / Tri	13005	3 - 400	15	20	0-32	32	310	250	130	ABS		

Smart Bore Hole 2

Smart Bore Hole 2	CODE	VOLTAGE		MAX		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range	Max	D	E	G	Material	KG	
Smart Bore Hole 2 / Mono	1061	1 - 230	2.2	3	0-18	18	310	250	130	ABS		
Smart Bore Hole 2 - 4/ Tri	13201	3 - 400	4	5.5	0-8.6	8.6	310	250	130	ABS		
Smart Bore Hole 2 - 5.5 / Tri	13202	3 - 400	5.5	7.5	0-11.6	11.6	310	250	130	ABS		
Smart Bore Hole 2 - 7.5 / Tri	13203	3 - 400	7.5	10	0-15.8	15.8	310	250	130	ABS		
Smart Bore Hole 2 - 11 / Tri	13204	3 - 400	11	15	0-25	25	310	250	130	ABS		
Smart Bore Hole 2 - 15 / Tri	13205	3 - 400	15	20	0-32	32	310	250	130	ABS		

*It is possible to realize the panel for 18.5 kW and largest capacity according to demand

**Please contact us for custom design production

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Voltage (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

★ Smart Grinder

Controller with microprocessor for controlling up to 2 pump single or three-phase grinder pumps. Grinder controller allows you to manage your system, configure the parameters, logs events and messages with practically and multifunctional.

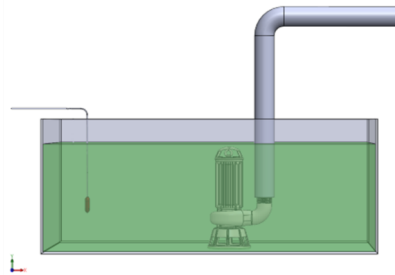


- ◇ Smart Grinder Panels are mounted in a specially designed IP 55 box that made of ABS material.
- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Different types of connections to start and stop motor such as; pressure switches, float switch or level electrode

Technical Features

- Thermoplastic (ABS) / IP 55
- Main switch with locking mechanism
- Power supply 1-50/60Hz 230V \pm 15%
- Power supply 3-50/60Hz 400V \pm 15%
- 128 x 64 LCD Graphical Display
- Green LED for Motor Running / Red LED for failures
- Input for start command
- Volt, Ampere, Alarms, Events and Date & Time Screen on Home Page
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Motor starting time
 - Over Float function
 - Dry running protection
- Motor protection fuses
- Displays pump run time
- Display and adjust to Maintenance time
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- Adjustable backward rotation function

Applications



Level Electrode

Technical Data

Smart Grinder 1

Smart Grinder 1	CODE	VOLTAGE		MAX		CURRENT		BOX DIMENSIONS			WEIGHT
		V-	kW	Hp	Range	Max	D	E	G	Material	KG
Smart Grinder 1 - 4/ Tri	14001	3 - 400	4	5.5	0-8.6	8.6	310	250	130	ABS	
Smart Grinder 1 - 5.5 / Tri	14002	3 - 400	5.5	7.5	0-11.6	11.6	310	250	130	ABS	
Smart Grinder 1 - 7.5 / Tri	14003	3 - 400	7.5	10	0-15.8	15.8	310	250	130	ABS	
Smart Grinder 1 - 11 / Tri	14004	3 - 400	11	15	0-25	25	310	250	130	ABS	
Smart Grinder 1 - 15 / Tri	14005	3 - 400	15	20	0-32	32	310	250	130	ABS	

Smart Grinder 1

Smart Grinder 2	CODE	VOLTAGE		MAX POWER		CURRENT		BOX DIMENSIONS			WEIGHT
		V-	kW	Hp	Range	Max	D	E	G	Material	KG
Smart Grinder 2 - 4/ Tri	14201	3 - 400	4	5.5	0-8.6	8.6	310	250	130	ABS	
Smart Grinder 2 - 5.5 / Tri	14202	3 - 400	5.5	7.5	0-11.6	11.6	310	250	130	ABS	
Smart Grinder 2 - 7.5 / Tri	14203	3 - 400	7.5	10	0-15.8	15.8	310	250	130	ABS	
Smart Grinder 2 - 11 / Tri	14204	3 - 400	11	15	0-25	25	310	250	130	ABS	
Smart Grinder 2 - 15 / Tri	14205	3 - 400	15	20	0-32	32	310	250	130	ABS	

*It is possible to realize the panel for 18.5 kW and largest capacity according to demand

**Please contact us for custom design production

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Voltage (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

★ Smart Exclusive D

Controller with microprocessor for controlling up to 4 pump single or three-phase motors. Exclusive D controller allows you to manage your system, configure the parameters, logs events and messages with practicality and multifunctional. (Pressurization, Emptying, filling in waste and clean water applications)

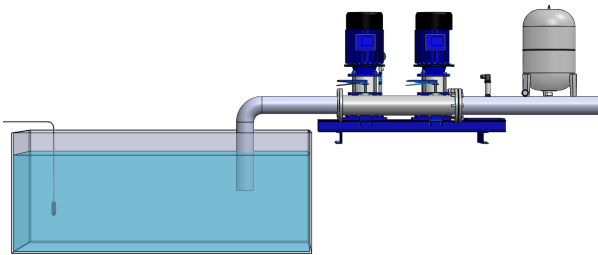


- ◇ Operating and monitoring the system from remote location with using 3G / WI-FI App Module
- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Different types of connections to start and stop motor such as; pressure switches, float switch or level electrode

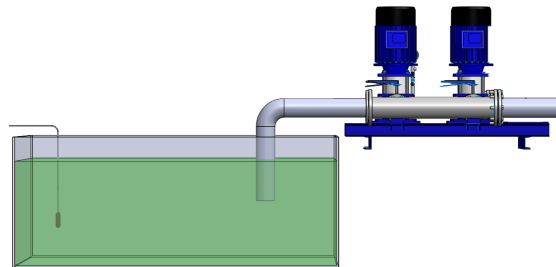
Technical Features

- Metallic / IP 54
- Main switch with locking mechanism
- Power supply 1-50/60Hz 230V \pm 15%
- Power supply 3-50/60Hz 400V \pm 15%
- 128 x 64 LCD Graphical Display
- Green LED for Motor Running / Red LED for failures
- Input for start command
- Displays Auto—Man Status
- Volt, Ampere, Alarms, Pressure, Events and Date & Time Screen on Home Page
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Motor starting time
 - Over Float function
 - Dry running protection
- Motor protection fuses
- Line Contactor AC3
- Displays pump run time
- Display and adjust to Maintenance time
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- MODBus Connection

Applications



Pressure Transmitter



Floater Control

Technical Data

Smart Exclusive D 3

Smart Exclusive D 3	CODE	VOLTAGE	MAX		CURRENT		BOX DIMENSIONS			WEIGHT	
		V-	kW	Hp	Ran-	Max	D	E	G	Material	KG
Smart Exclusive D 3 / Mono	1071	1 - 230	2.2	3	0-18	18	600	400	200	Metallic	
Smart Exclusive D 3 - 4/ Tri	15001	3 - 400	4	5.5	0-8.6	8.6	600	400	200	Metallic	
Smart Exclusive D 3 - 5.5 / Tri	15002	3 - 400	5.5	7.5	0-11.6	11.6	600	400	200	Metallic	
Smart Exclusive D 3 - 7.5 / Tri	15003	3 - 400	7.5	10	0-15.8	15.8	600	400	200	Metallic	
Smart Exclusive D 3 - 11 / Tri	15004	3 - 400	11	15	0-25	25	600	400	200	Metallic	
Smart Exclusive D 3 - 15 / Tri	15005	3 - 400	15	20	0-32	32	600	400	200	Metallic	

Smart Exclusive D 3

Smart Exclusive D 4	CODE	VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS			WEIGHT	
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Smart Exclusive D 4 / Mono	1081	1 - 230	2.2	3	0-18	18	600	400	200	Metallic	
Smart Exclusive D 4 - 4/ Tri	15201	3 - 400	4	5.5	0-8.6	8.6	600	400	200	Metallic	
Smart Exclusive D 4 - 5.5 / Tri	15202	3 - 400	5.5	7.5	0-11.6	11.6	600	400	200	Metallic	
Smart Exclusive D 4 - 7.5 / Tri	15203	3 - 400	7.5	10	0-15.8	15.8	600	400	200	Metallic	
Smart Exclusive D 4 - 11 / Tri	15204	3 - 400	11	15	0-25	25	600	400	200	Metallic	
Smart Exclusive D 4 - 15 / Tri	15205	3 - 400	15	20	0-32	32	600	400	200	Metallic	

*It is possible to realize the panel for 18.5 kW and largest capacity according to demand

**Please contact us for custom design production

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Power (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

Star / Delta Series Control Panel

A star delta starter is the most commonly used method for the starting of a three-phase motors. In star delta starting motor is connected in through a star connection throughout the starting period. Then once the motor reaches the required speed, the motor is disconnected in through a delta connection.

Star delta starting reduces starting current and torque to current of %33 less then direct starting.



★ Smart Exclusive S

Controller with microprocessor for controlling up to 4 pump single or three-phase motors by star delta starting method. Exclusive controller allows you to manage your system, configure the parameters, logs events and messages with practically and multifunctional. (Pressurization, Emptying, filling in waste and clean water applications).

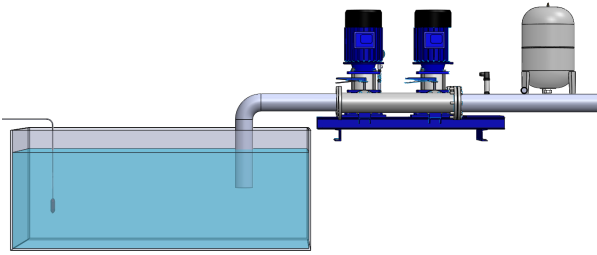
- ◇ Operating and monitoring the system from remote location with using 3G / WI-FI App Module
- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Different types of connections to start and stop motor such as; flow switch, level electrode, pressure switch and sensors



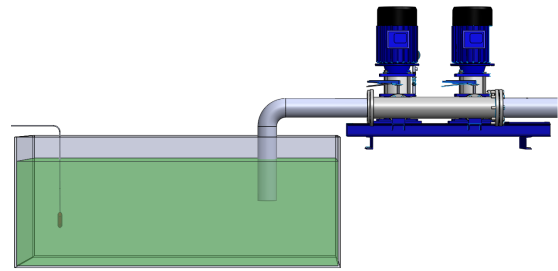
Technical Features

- Metallic / IP 54
- Main switch with locking mechanism
- Power supply 1-50/60Hz 230V \pm %15
- Power supply 3-50/60Hz 400V \pm %15
- 128 x 64 LCD Graphical Display
- Green LED for Motor Running / Red LED for failures
- Input for start command
- Displays Auto—Man Status
- Volt, Ampere, Alarms, Events and Date & Time Screen on Home Page
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Motor starting time
 - Over Float function
 - Dry running protection
- Motor protection fuses
- Star Delta Contactor AC3
- Displays pump run time
- Display and adjust to Maintenance time
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- Adjustable weekly test run
- MODBus Connection
- Solenoid Valve output

Applications



Pressure Transmitter



Floater Control

Technical Data

Exclusive S 1

Exclusive S 1	CODE	VOLTAGE	MAX		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Exclusive S 1 - 7.5 / Tri	16001	3 - 400	7.5	10	0-15.8	15.8	400	300	175	ABS	
Exclusive S 1 - 11 / Tri	16002	3 - 400	11	15	0-25	25	400	300	175	ABS	
Exclusive S 1 - 15 / Tri	16003	3 - 400	15	20	0-31.9	31.9	600	400	200	Metallic	
Exclusive S 1 - 18.5 / Tri	16004	3 - 400	18.5	25	0-37.1	37.1	600	400	200	Metallic	
Exclusive S 1 - 22 / Tri	16005	3 - 400	22	30	0-42.7	42.7	600	400	200	Metallic	
Exclusive S 1 - 30 / Tri	16006	3 - 400	30	40	0-57.6	57.6	600	400	200	Metallic	
Exclusive S 1 - 37 / Tri	16007	3 - 400	37	50	0-70.2	70.2	600	400	200	Metallic	
Exclusive S 1 - 45 / Tri	16008	3 - 400	45	60	0-83.5	83.5	700	500	200	Metallic	
Exclusive S 1 - 55 / Tri	16009	3 - 400	55	75	0-100.9	100.9	700	500	200	Metallic	
Exclusive S 1 - 75 / Tri	16010	3 - 400	75	100	0-140.7	140.7	700	500	200	Metallic	
Exclusive S 1 - 90 / Tri	16011	3 - 400	90	125	0-165.1	165.1	800	600	290	Metallic	
Exclusive S 1 - 110 / Tri	16012	3 - 400	110	150	0-201.9	201.9	800	600	290	Metallic	
Exclusive S 1 - 132 / Tri	16013	3 - 400	132	180	0-242.2	242.2	1000	700	320	Metallic	
Exclusive S 1 - 160 / Tri	16014	3 - 400	160	220	0-290.6	290.6	1000	700	320	Metallic	
Exclusive S 1 - 185 / Tri	16015	3 - 400	185	250	0-332.4	332.4	1200	800	340	Metallic	
Exclusive S 1 - 200 / Tri	16016	3 - 400	200	270	0-355.4	355.4	1200	800	340	Metallic	
Exclusive S 1 - 250 / Tri	16017	3 - 400	250	340	0-444.3	444.3	1200	800	340	Metallic	
Exclusive S 1 - 315 / Tri	16018	3 - 400	315	430	0-553.6	553.6	1300	900	360	Metallic	
Exclusive S 1 - 355 / Tri	16019	3 - 400	355	485	0-623.9	623.9	1300	900	360	Metallic	
Exclusive S 1 - 400 / Tri	16020	3 - 400	400	544	0-703	703	1300	900	360	Metallic	

Exclusive S 2

Exclusive S 2		VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
	CODE	V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Exclusive S 2 - 7.5 / Tri	16201	3 - 400	7.5	10	0-15.8	15.8	600	400	200	Metallic	
Exclusive S 2 - 11 / Tri	16202	3 - 400	11	15	0-25	25	600	400	200	Metallic	
Exclusive S 2 - 15 / Tri	16203	3 - 400	15	20	0-31.9	31.9	600	400	200	Metallic	
Exclusive S 2 - 18.5 / Tri	16204	3 - 400	18.5	25	0-37.1	37.1	600	400	200	Metallic	
Exclusive S 2 - 22 / Tri	16205	3 - 400	22	30	0-42.7	42.7	700	500	260	Metallic	
Exclusive S 2 - 30 / Tri	16206	3 - 400	30	40	0-57.6	57.6	700	500	260	Metallic	
Exclusive S 2 - 37 / Tri	16207	3 - 400	37	50	0-70.2	70.2	800	600	290	Metallic	
Exclusive S 2 - 45 / Tri	16208	3 - 400	45	60	0-83.5	83.5	1000	700	320	Metallic	
Exclusive S 2 - 55 / Tri	16209	3 - 400	55	75	0-100.9	100.9	1000	700	320	Metallic	
Exclusive S 2 - 75 / Tri	16210	3 - 400	75	100	0-140.7	140.7	1200	800	340	Metallic	
Exclusive S 2 - 90 / Tri	16211	3 - 400	90	125	0-165.1	165.1	1400	800	340	Metallic	
Exclusive S 2 - 110 / Tri	16212	3 - 400	110	150	0-201.9	201.9	1400	800	340	Metallic	
Exclusive S 2 - 132 / Tri	16213	3 - 400	132	180	0-242.2	242.2	1800	950	360	Metallic	
Exclusive S 2 - 160 / Tri	16214	3 - 400	160	220	0-290.6	290.6	1800	950	360	Metallic	
Exclusive S 2 - 185 / Tri	16215	3 - 400	185	250	0-332.4	332.4	2000	1000	420	Metallic	
Exclusive S 2 - 200 / Tri	16216	3 - 400	200	270	0-355.4	355.4	2000	1000	420	Metallic	
Exclusive S 2 - 250 / Tri	16217	3 - 400	250	340	0-444.3	444.3	2000	1000	420	Metallic	
Exclusive S 2 - 315 / Tri	16218	3 - 400	315	430	0-553.6	553.6	2100	1600	500	Metallic	
Exclusive S 2 - 355 / Tri	16219	3 - 400	355	485	0-623.9	623.9	2100	1600	500	Metallic	
Exclusive S 2 - 400 / Tri	16220	3 - 400	400	544	0-703	703	2100	1600	500	Metallic	

Exclusive S 3

Exclusive S 3		VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
	CODE	V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Exclusive S 3 - 7.5 / Tri	16301	3 - 400	7.5	10	0-15.8	15.8	700	500	260	Metallic	
Exclusive S 3 - 11 / Tri	16302	3 - 400	11	15	0-25	25	700	500	260	Metallic	
Exclusive S 3 - 15 / Tri	16303	3 - 400	15	20	0-31.9	31.9	800	600	290	Metallic	
Exclusive S 3 - 18.5 / Tri	16304	3 - 400	18.5	25	0-37.1	37.1	1000	700	320	Metallic	
Exclusive S 3 - 22 / Tri	16305	3 - 400	22	30	0-42.7	42.7	1000	700	320	Metallic	
Exclusive S 3 - 30 / Tri	16306	3 - 400	30	40	0-57.6	57.6	1200	800	340	Metallic	
Exclusive S 3 - 37 / Tri	16307	3 - 400	37	50	0-70.2	70.2	1400	800	340	Metallic	
Exclusive S 3 - 45 / Tri	16308	3 - 400	45	60	0-83.5	83.5	1400	800	340	Metallic	
Exclusive S 3 - 55 / Tri	16309	3 - 400	55	75	0-100.9	100.9	1800	950	360	Metallic	
Exclusive S 3 - 75 / Tri	16310	3 - 400	75	100	0-140.7	140.7	1800	950	360	Metallic	
Exclusive S 3 - 90 / Tri	16311	3 - 400	90	125	0-165.1	165.1	2000	1200	420	Metallic	
Exclusive S 3 - 110 / Tri	16312	3 - 400	110	150	0-201.9	201.9	2000	1200	420	Metallic	
Exclusive S 3 - 132 / Tri	16313	3 - 400	132	180	0-242.2	242.2	2000	1200	420	Metallic	
Exclusive S 3 - 160 / Tri	16314	3 - 400	160	220	0-290.6	290.6	2000	1600	500	Metallic	
Exclusive S 3 - 185 / Tri	16315	3 - 400	185	250	0-332.4	332.4	2000	1600	500	Metallic	
Exclusive S 3 - 200 / Tri	16316	3 - 400	200	270	0-355.4	355.4	2000	1600	500	Metallic	
Exclusive S 3 - 250 / Tri	16317	3 - 400	250	340	0-444.3	444.3	2000	1600	500	Metallic	
Exclusive S 3 - 315 / Tri	16318	3 - 400	315	430	0-553.6	553.6	2200	1600	550	Metallic	
Exclusive S 3 - 355 / Tri	16319	3 - 400	355	485	0-623.9	623.9	2200	1600	550	Metallic	
Exclusive S 3 - 400 / Tri	16320	3 - 400	400	544	0-703	703	2200	1600	550	Metallic	

Exclusive S 2

Exclusive S 4		VOLTAGE	MAX		CURRENT		BOX DIMENSIONS			WEIGHT	
	CODE	V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Exclusive S 4 - 7.5 / Tri	16401	3 - 400	7.5	10	0-15.8	15.8	800	600	290	Metallic	
Exclusive S 4 - 11 / Tri	16402	3 - 400	11	15	0-25	25	800	600	290	Metallic	
Exclusive S 4 - 15 / Tri	16403	3 - 400	15	20	0-31.9	31.9	800	600	290	Metallic	
Exclusive S 4 - 18.5 / Tri	16404	3 - 400	18.5	25	0-37.1	37.1	1000	700	320	Metallic	
Exclusive S 4 - 22 / Tri	16405	3 - 400	22	30	0-42.7	42.7	1000	700	320	Metallic	
Exclusive S 4 - 30 / Tri	16406	3 - 400	30	40	0-57.6	57.6	1200	800	340	Metallic	
Exclusive S 4 - 37 / Tri	16407	3 - 400	37	50	0-70.2	70.2	1400	800	340	Metallic	
Exclusive S 4 - 45 / Tri	16408	3 - 400	45	60	0-83.5	83.5	1400	800	340	Metallic	
Exclusive S 4 - 55 / Tri	16409	3 - 400	55	75	0-100.9	100.9	1800	950	360	Metallic	
Exclusive S 4 - 75 / Tri	16410	3 - 400	75	100	0-140.7	140.7	1800	950	360	Metallic	
Exclusive S 4 - 90 / Tri	16411	3 - 400	90	125	0-165.1	165.1	2000	1600	500	Metallic	
Exclusive S 4 - 110 / Tri	16412	3 - 400	110	150	0-201.9	201.9	2000	1600	500	Metallic	
Exclusive S 4 - 132 / Tri	16413	3 - 400	132	180	0-242.2	242.2	2000	1600	500	Metallic	
Exclusive S 4 - 160 / Tri	16414	3 - 400	160	220	0-290.6	290.6	2200	1600	550	Metallic	
Exclusive S 4 - 185 / Tri	16415	3 - 400	185	250	0-332.4	332.4	2200	1600	550	Metallic	
Exclusive S 4 - 200 / Tri	16416	3 - 400	200	270	0-355.4	355.4	2200	1600	550	Metallic	
Exclusive S 4 - 250 / Tri	16417	3 - 400	250	340	0-444.3	444.3	2200	1600	550	Metallic	
Exclusive S 4 - 315 / Tri	16418	3 - 400	315	430	0-553.6	553.6	2400	1800	600	Metallic	
Exclusive S 4 - 355 / Tri	16419	3 - 400	355	485	0-623.9	623.9	2400	1800	600	Metallic	
Exclusive S 4 - 400 / Tri	16420	3 - 400	400	544	0-703	703	2400	1800	600	Metallic	

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Power (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

Variable Frequency Drive Control Panel Series

A Variable Frequency drive control panel is an electronic start method that is used to adjust the rotating speed and torque of a standard, electric AC motor. The electric motor, in turn, drives a load such as a pump and fan.



The benefits of Inverter drive control;

- Reduces the in rush current
- Optimal control for instantaneous demand
- Energy cost reduction for pump system

★ FxA Series

Electronic control panels with variable frequency drive to control up to 4 three-phase motors with advanced features.

- ◇ Operating and monitoring the system from remote location with using 3G / WI-FI App Module
- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Factory equipped with motor circuit protection breaker, Isolating switch with door locking system
- ◇ Different types of connections to start and stop motor such as; flow switch, pressure switches/ sensors, temperature sensors, etc.
- ◇ Smart solutions for applications such as;

Booster Pumps

Wastewater Pumps (Submersible or surface pumps)

Irrigation Pumps

HVAC Systems

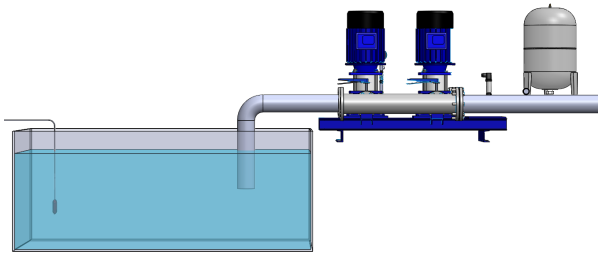
Industrial Pumps



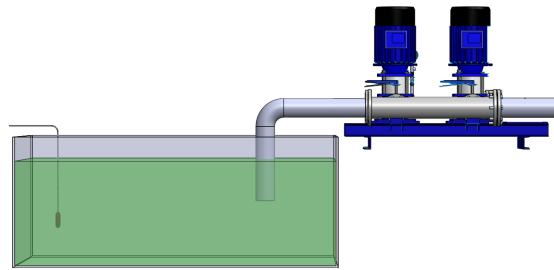
Technical Features

- Metallic / IP 54 Main switch with locking mechanism
- Auto / Manual Switch
- Power supply 3-50/60Hz 400V \pm 10%
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Motor starting time
 - Over Float function
 - Dry running protection
 - Thermal and Magnetic protection
- Dry contact for BMS
- MODBus (RS485)
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- Adjustable weekly test run
- MODBus Connection
- P.I.D Regulation
- Internal Ventilation

Applications



Pressure Transmitter



Float Control

Technical Data

FxA 1

FxA 1	VOLTAGE			MAX POWER		CURRENT	BOX DIMENSIONS				WEIGHT
	CODE	V-IN	V-OUT	Hp	Range (A)	Max (A)	D	E	G	Material	KG
FxA 1 - 0.75 / Tri	17001	3 - 400	3 - 400	0.75	1	2.5	600	400	260	Metallic	
FxA 1 - 1.1 / Tri	17002	3 - 400	3 - 400	1.1	1.5	3.6	600	400	260	Metallic	
FxA 1 - 1.5 / Tri	17003	3 - 400	3 - 400	1.5	2	4.5	600	400	260	Metallic	
FxA 1 - 2.2 / Tri	17004	3 - 400	3 - 400	2.2	3	6.2	600	400	260	Metallic	
FxA 1 - 3 / Tri	17005	3 - 400	3 - 400	3	4	8	600	400	260	Metallic	
FxA 1 - 4 / Tri	17006	3 - 400	3 - 400	4	5.5	9.7	600	400	260	Metallic	
FxA 1 - 5.5 / Tri	17007	3 - 400	3 - 400	5.5	7.5	13.8	700	500	260	Metallic	
FxA 1 - 7.5 / Tri	17008	3 - 400	3 - 400	7.5	10	17.2	700	500	260	Metallic	
FxA 1 - 11 / Tri	17009	3 - 400	3 - 400	11	15	25.4	700	500	260	Metallic	
FxA 1 - 15 / Tri	17010	3 - 400	3 - 400	15	20	34.1	700	500	260	Metallic	
FxA 1 - 18.5 / Tri	17011	3 - 400	3 - 400	18.5	25	41.8	700	500	260	Metallic	
FxA 1 - 22 / Tri	17012	3 - 400	3 - 400	22	30	48.4	700	500	260	Metallic	

FxA 2

FxA 2	VOLTAGE			MAX POWER		CURRENT	BOX DIMENSIONS				WEIGHT
	CODE	V-IN	V-OUT	Hp	Range (A)	Max (A)	D	E	G	Material	KG
FxA 2 - 0.75 / Tri	17201	3 - 400	3 - 400	0.75	1	2.5	700	500	260	Metallic	
FxA 2 - 1.1 / Tri	17202	3 - 400	3 - 400	1.1	1.5	3.6	700	500	260	Metallic	
FxA 2 - 1.5 / Tri	17203	3 - 400	3 - 400	1.5	2	4.5	700	500	260	Metallic	
FxA 2 - 2.2 / Tri	17204	3 - 400	3 - 400	2.2	3	6.2	700	500	260	Metallic	
FxA 2 - 3 / Tri	17205	3 - 400	3 - 400	3	4	8	700	500	260	Metallic	
FxA 2 - 4 / Tri	17206	3 - 400	3 - 400	4	5.5	9.7	700	500	260	Metallic	
FxA 2 - 5.5 / Tri	17207	3 - 400	3 - 400	5.5	7.5	13.8	700	500	260	Metallic	
FxA 2 - 7.5 / Tri	17208	3 - 400	3 - 400	7.5	10	17.2	700	500	260	Metallic	
FxA 2 - 11 / Tri	17209	3 - 400	3 - 400	11	15	25.4	700	500	260	Metallic	
FxA 2 - 15 / Tri	17210	3 - 400	3 - 400	15	20	34.1	800	600	260	Metallic	
FxA 2 - 18.5 / Tri	17211	3 - 400	3 - 400	18.5	25	41.8	800	600	260	Metallic	
FxA 2 - 22 / Tri	17212	3 - 400	3 - 400	22	30	48.4	800	600	260	Metallic	

FxA 3

FxA 3	VOLTAGE			MAX POWER		CURRENT	BOX DIMENSIONS			WEIGHT	
	CODE	V-IN	V-OUT	Hp	Range (A)	Max (A)	D	E	G	Material	KG
FxA 3 - 0.75 / Tri	17301	3 - 400	3 - 400	0.75	1	2.5	800	600	260	Metallic	
FxA 3 - 1.1 / Tri	17302	3 - 400	3 - 400	1.1	1.5	3.6	800	600	260	Metallic	
FxA 3 - 1.5 / Tri	17303	3 - 400	3 - 400	1.5	2	4.5	800	600	260	Metallic	
FxA 3 - 2.2 / Tri	17304	3 - 400	3 - 400	2.2	3	6.2	800	600	260	Metallic	
FxA 3 - 3 / Tri	17305	3 - 400	3 - 400	3	4	8	800	600	260	Metallic	
FxA 3 - 4 / Tri	17306	3 - 400	3 - 400	4	5.5	9.7	800	600	260	Metallic	
FxA 3 - 5.5 / Tri	17307	3 - 400	3 - 400	5.5	7.5	13.8	1000	700	320	Metallic	
FxA 3 - 7.5 / Tri	17308	3 - 400	3 - 400	7.5	10	17.2	1000	700	320	Metallic	
FxA 3 - 11 / Tri	17309	3 - 400	3 - 400	11	15	25.4	1000	700	320	Metallic	
FxA 3 - 15 / Tri	17310	3 - 400	3 - 400	15	20	34.1	1300	900	340	Metallic	
FxA 3 - 18.5 / Tri	17311	3 - 400	3 - 400	18.5	25	41.8	1300	900	340	Metallic	
FxA 3 - 22 / Tri	17312	3 - 400	3 - 400	22	30	48.4	1300	900	340	Metallic	

FxA 4

FxA 4	VOLTAGE			MAX POWER		CURRENT	BOX DIMENSIONS			WEIGHT	
	CODE	V-IN	V-OUT	Hp	Range (A)	Max (A)	D	E	G	Material	KG
FxA 4 - 0.75 / Tri	17401	3 - 400	3 - 400	0.75	1	2.5	800	600	260	Metallic	
FxA 4 - 1.1 / Tri	17402	3 - 400	3 - 400	1.1	1.5	3.6	800	600	260	Metallic	
FxA 4 - 1.5 / Tri	17403	3 - 400	3 - 400	1.5	2	4.5	800	600	260	Metallic	
FxA 4 - 2.2 / Tri	17404	3 - 400	3 - 400	2.2	3	6.2	800	600	260	Metallic	
FxA 4 - 3 / Tri	17405	3 - 400	3 - 400	3	4	8	800	600	260	Metallic	
FxA 4 - 4 / Tri	17406	3 - 400	3 - 400	4	5.5	9.7	800	600	260	Metallic	
FxA 4 - 5.5 / Tri	17407	3 - 400	3 - 400	5.5	7.5	13.8	1000	700	320	Metallic	
FxA 4 - 7.5 / Tri	17408	3 - 400	3 - 400	7.5	10	17.2	1000	700	320	Metallic	
FxA 4 - 11 / Tri	17409	3 - 400	3 - 400	11	15	25.4	1000	700	320	Metallic	
FxA 4 - 15 / Tri	17410	3 - 400	3 - 400	15	20	34.1	1300	900	340	Metallic	
FxA 4 - 18.5 / Tri	17411	3 - 400	3 - 400	18.5	25	41.8	1300	900	340	Metallic	
FxA 4 - 22 / Tri	17412	3 - 400	3 - 400	22	30	48.4	1300	900	340	Metallic	

**It is possible to realize the panel for 30 kW and largest capacity according to demand*

***Please contact us for custom design production*

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Power (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Differential
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

Pressure Transmitter



Model	Power (V)	Range
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

★ FxS Series

Electronic control panels with variable frequency drive to control up to 4 three-phase motors with advanced features.

- ◇ Operating and monitoring the system from remote location with using 3G / WI-FI App Module
- ◇ Easy and quick set-up features with 7" TFT touch screen
- ◇ Factory equipped with motor circuit protection breaker, Isolating switch with door locking system
- ◇ Different types of connections to start and stop motor such as; flow switch, pressure switches/sensors, temperature sensors, etc.
- ◇ Smart solutions for applications such as;

Booster Pumps

Wastewater Pumps (Submersible or surface pumps)

Irrigation Pumps

HVAC Systems

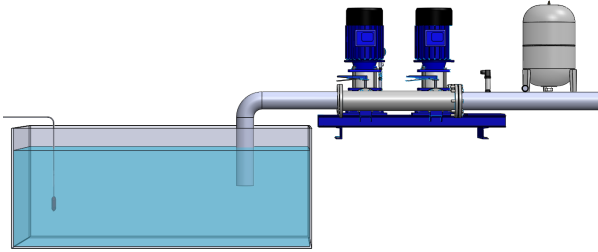
Industrial Pumps



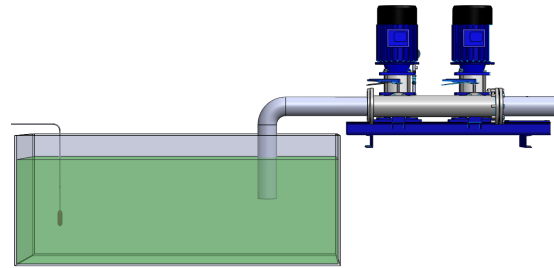
Technical Features

- Metal Enclosure / IP 54
- Main switch with locking mechanism
- Auto / Manual Switch
- Power supply 3-50/60Hz 400V \pm 10%
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Motor starting time
 - Over Float function
 - Dry running protection
 - Thermal and Magnetic protection
- Dry contact for BMS
- MODBus (RS485)
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- Adjustable weekly test run
- Modbus Connection standart. BACnet, LonWorks optional
- Webgate APP to remote access (Optional)
- P.I.D Regulation
- Internal Ventilation

Applications



Pressure Transmitter



Floater Control

Technical Data

FxS 1

FxS 1	VOLTAGE			MAX		CURRENT	BOX DIMENSIONS			WEIGHT	
	CODE	V-IN	V-OUT	Hp	Range	Max (A)	D	E	G	Material	KG
FxS 1 - 0.75 / Tri	18001	3 - 400	3 - 400	0.75	1	2.1	600	400	260	Metallic	
FxS 1 - 1.1 / Tri	18002	3 - 400	3 - 400	1.1	1.5	3.3	600	400	260	Metallic	
FxS 1 - 1.5 / Tri	18003	3 - 400	3 - 400	1.5	2	4.1	600	400	260	Metallic	
FxS 1 - 2.2 / Tri	18004	3 - 400	3 - 400	2.2	3	5.4	600	400	260	Metallic	
FxS 1 - 3 / Tri	18005	3 - 400	3 - 400	3	4	6.9	600	400	260	Metallic	
FxS 1 - 4 / Tri	18006	3 - 400	3 - 400	4	5.5	8.8	600	400	260	Metallic	
FxS 1 - 5.5 / Tri	18007	3 - 400	3 - 400	5.5	7.5	11.9	700	500	260	Metallic	
FxS 1 - 7.5 / Tri	18008	3 - 400	3 - 400	7.5	10	15.4	700	500	260	Metallic	
FxS 1 - 11 / Tri	18009	3 - 400	3 - 400	11	15	23	700	500	260	Metallic	
FxS 1 - 15 / Tri	18010	3 - 400	3 - 400	15	20	31	700	500	260	Metallic	
FxS 1 - 18.5 / Tri	18011	3 - 400	3 - 400	18.5	25	38	700	500	260	Metallic	
FxS 1 - 22 / Tri	18012	3 - 400	3 - 400	22	30	45	700	500	260	Metallic	
FxS 1 - 30 / Tri	18013	3 - 400	3 - 400	30	40	59	1000	700	320	Metallic	
FxS 1 - 37 / Tri	18014	3 - 400	3 - 400	37	50	72	1000	700	320	Metallic	
FxS 1 - 45 / Tri	18015	3 - 400	3 - 400	45	60	87	1200	800	340	Metallic	
FxS 1 - 55 / Tri	18016	3 - 400	3 - 400	55	75	125	1200	800	340	Metallic	
FxS 1 - 75 / Tri	18017	3 - 400	3 - 400	75	100	157	1600	800	550	Metallic	
FxS 1 - 90 / Tri	18018	3 - 400	3 - 400	90	125	180	1600	800	550	Metallic	
FxS 1 - 110 / Tri	18019	3 - 400	3 - 400	110	150	205	1600	800	550	Metallic	
FxS 1 - 132 / Tri	18020	3 - 400	3 - 400	132	180	246	1800	1300	550	Metallic	
FxS 1 - 160 / Tri	18021	3 - 400	3 - 400	160	220	289	1800	1300	550	Metallic	

FxS 2

FxS 2	VOLTAGE			MAX POWER		CURRENT	BOX DIMENSIONS				WEIGHT
	CODE	V-IN	V-OUT	Hp	Range	Max (A)	D	E	G	Material	KG
FxS 2 - 0.75 / Tri	18201	3 - 400	3 - 400	0.75	1	2.1	700	500	260	Metallic	
FxS 2 - 1.1 / Tri	18202	3 - 400	3 - 400	1.1	1.5	3.3	700	500	260	Metallic	
FxS 2 - 1.5 / Tri	18203	3 - 400	3 - 400	1.5	2	4.1	700	500	260	Metallic	
FxS 2 - 2.2 / Tri	18204	3 - 400	3 - 400	2.2	3	5.4	700	500	260	Metallic	
FxS 2 - 3 / Tri	18205	3 - 400	3 - 400	3	4	6.9	700	500	260	Metallic	
FxS 2 - 4 / Tri	18206	3 - 400	3 - 400	4	5.5	8.8	700	500	260	Metallic	
FxS 2 - 5.5 / Tri	18207	3 - 400	3 - 400	5.5	7.5	11.9	700	500	260	Metallic	
FxS 2 - 7.5 / Tri	18208	3 - 400	3 - 400	7.5	10	15.4	700	500	260	Metallic	
FxS 2 - 11 / Tri	18209	3 - 400	3 - 400	11	15	23	700	500	260	Metallic	
FxS 2 - 15 / Tri	18210	3 - 400	3 - 400	15	20	31	800	600	260	Metallic	
FxS 2 - 18.5 / Tri	18211	3 - 400	3 - 400	18.5	25	38	800	600	260	Metallic	
FxS 2 - 22 / Tri	18212	3 - 400	3 - 400	22	30	45	800	600	260	Metallic	
FxS 2 - 30 / Tri	18213	3 - 400	3 - 400	30	40	59	1000	700	320	Metallic	
FxS 2 - 37 / Tri	18214	3 - 400	3 - 400	37	50	72	1000	700	320	Metallic	
FxS 2 - 45 / Tri	18215	3 - 400	3 - 400	45	60	87	1200	800	340	Metallic	
FxS 2 - 55 / Tri	18216	3 - 400	3 - 400	55	75	125	1200	800	340	Metallic	
FxS 2 - 75 / Tri	18217	3 - 400	3 - 400	75	100	157	1600	800	550	Metallic	
FxS 2 - 90 / Tri	18218	3 - 400	3 - 400	90	125	180	1600	800	550	Metallic	
FxS 2 - 110 / Tri	18219	3 - 400	3 - 400	110	150	205	1600	800	550	Metallic	
FxS 2 - 132 / Tri	18220	3 - 400	3 - 400	132	180	246	1800	1300	550	Metallic	
FxS 2 - 160 / Tri	18221	3 - 400	3 - 400	160	220	289	1800	1300	550	Metallic	

FxS 3

FxS 3	VOLTAGE			MAX POWER		CURRENT	BOX DIMENSIONS				WEIGHT
	CODE	V-IN	V-OUT	Hp	Range (A)	Max (A)	D	E	G	Material	KG
FxS 3 - 0.75 / Tri	18301	3 - 400	3 - 400	0.75	1	2.1	800	600	260	Metallic	
FxS 3 - 1.1 / Tri	18302	3 - 400	3 - 400	1.1	1.5	3.3	800	600	260	Metallic	
FxS 3 - 1.5 / Tri	18303	3 - 400	3 - 400	1.5	2	4.1	800	600	260	Metallic	
FxS 3 - 2.2 / Tri	18304	3 - 400	3 - 400	2.2	3	5.4	800	600	260	Metallic	
FxS 3 - 3 / Tri	18305	3 - 400	3 - 400	3	4	6.9	800	600	260	Metallic	
FxS 3 - 4 / Tri	18306	3 - 400	3 - 400	4	5.5	8.8	800	600	260	Metallic	
FxS 3 - 5.5 / Tri	18307	3 - 400	3 - 400	5.5	7.5	11.9	1000	700	320	Metallic	
FxS 3 - 7.5 / Tri	18308	3 - 400	3 - 400	7.5	10	15.4	1000	700	320	Metallic	
FxS 3 - 11 / Tri	18309	3 - 400	3 - 400	11	15	23	1000	700	320	Metallic	
FxS 3 - 15 / Tri	18310	3 - 400	3 - 400	15	20	31	1200	800	340	Metallic	
FxS 3 - 18.5 / Tri	18311	3 - 400	3 - 400	18.5	25	38	1200	800	340	Metallic	
FxS 3 - 22 / Tri	18312	3 - 400	3 - 400	22	30	45	1200	800	340	Metallic	
FxS 3 - 30 / Tri	18313	3 - 400	3 - 400	30	40	59	1300	900	340	Metallic	
FxS 3 - 37 / Tri	18314	3 - 400	3 - 400	37	50	72	1300	900	340	Metallic	
FxS 3 - 45 / Tri	18315	3 - 400	3 - 400	45	60	87	1300	900	340	Metallic	
FxS 3 - 55 / Tri	18316	3 - 400	3 - 400	55	75	125	1300	900	340	Metallic	
FxS 3 - 75 / Tri	18317	3 - 400	3 - 400	75	100	157	1600	800	550	Metallic	
FxS 3 - 90 / Tri	18318	3 - 400	3 - 400	90	125	180	1600	800	550	Metallic	
FxS 3 - 110 / Tri	18319	3 - 400	3 - 400	110	150	205	1600	800	550	Metallic	
FxS 3 - 132 / Tri	18320	3 - 400	3 - 400	132	180	246	1800	1300	550	Metallic	
FxS 3 - 160 / Tri	18321	3 - 400	3 - 400	160	220	289	1800	1300	550	Metallic	

FxS 4

FxS 4	VOLTAGE			MAX POWER		CURRENT	BOX DIMENSIONS			WEIGHT	
	CODE	V-IN	V-OUT	Hp	Range (A)	Max (A)	D	E	G	Material	KG
FxS 4 - 0.75 / Tri	18401	3 - 400	3 - 400	0.75	1	2.1	800	600	260	Metallic	
FxS 4 - 1.1 / Tri	18402	3 - 400	3 - 400	1.1	1.5	3.3	800	600	260	Metallic	
FxS 4 - 1.5 / Tri	18403	3 - 400	3 - 400	1.5	2	4.1	800	600	260	Metallic	
FxS 4 - 2.2 / Tri	18404	3 - 400	3 - 400	2.2	3	5.4	800	600	260	Metallic	
FxS 4 - 3 / Tri	18405	3 - 400	3 - 400	3	4	6.9	800	600	260	Metallic	
FxS 4 - 4 / Tri	18406	3 - 400	3 - 400	4	5.5	8.8	800	600	260	Metallic	
FxS 4 - 5.5 / Tri	18407	3 - 400	3 - 400	5.5	7.5	11.9	1000	700	320	Metallic	
FxS 4 - 7.5 / Tri	18408	3 - 400	3 - 400	7.5	10	15.4	1000	700	320	Metallic	
FxS 4 - 11 / Tri	18409	3 - 400	3 - 400	11	15	23	1000	700	320	Metallic	
FxS 4 - 15 / Tri	18410	3 - 400	3 - 400	15	20	31	1300	900	340	Metallic	
FxS 4 - 18.5 / Tri	18411	3 - 400	3 - 400	18.5	25	38	1300	900	340	Metallic	
FxS 4 - 22 / Tri	18412	3 - 400	3 - 400	22	30	45	1300	900	340	Metallic	
FxS 4 - 30 / Tri	18413	3 - 400	3 - 400	30	40	59	1600	800	550	Metallic	
FxS 4 - 37 / Tri	18414	3 - 400	3 - 400	37	50	72	1600	800	550	Metallic	
FxS 4 - 45 / Tri	18415	3 - 400	3 - 400	45	60	87	1600	800	550	Metallic	
FxS 4 - 55 / Tri	18416	3 - 400	3 - 400	55	75	125	1600	800	550	Metallic	
FxS 4 - 75 / Tri	18417	3 - 400	3 - 400	75	100	157	1800	1300	550	Metallic	
FxS 4 - 90 / Tri	18418	3 - 400	3 - 400	90	125	180	1800	1300	550	Metallic	
FxS 4 - 110 / Tri	18419	3 - 400	3 - 400	110	150	205	1800	1300	550	Metallic	
FxS 4 - 132 / Tri	18420	3 - 400	3 - 400	132	180	246	2000	1600	600	Metallic	
FxS 4 - 160 / Tri	18421	3 - 400	3 - 400	160	220	289	2000	1600	600	Metallic	

**It is possible to realize the panel for 185 kW and largest capacity according to demand*

***Please contact us for custom design production*

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Power (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Differential
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

Pressure Transmitter



Model	Power (V)	Range
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

★ Mini Speed

Electronic control panels with variable frequency drive to control single or three-phase motors with advanced features.



- ◇ Operating and monitoring the system from remote location with using 3G / WI-FI App Module
- ◇ Factory equipped with motor circuit protection breaker, Isolating switch with door locking system
- ◇ Different types of connections to start and stop motor such as; flow switch, pressure switches/sensors, temperature sensors, etc.
- ◇ Smart solutions for applications such as;

Booster Pumps

Wastewater Pumps (Submersible or surface pumps)

Irrigation Pumps

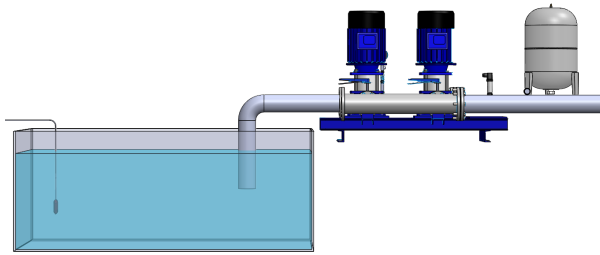
HVAC Systems

Industrial Pumps

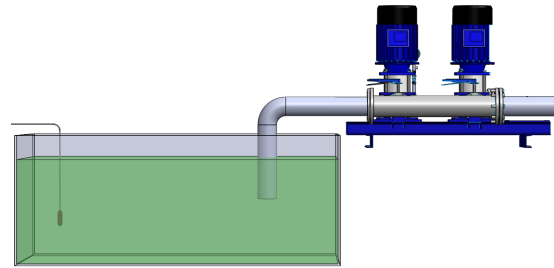
Technical Features

- ABS / IP 55
- Main switch with locking mechanism
- Auto / Manual Switch
- Power supply 1-50/60Hz 230V \pm 10%
- Power supply 3-50/60Hz 400V \pm 10%
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Motor starting time
 - Over Float function
 - Dry running protection
 - Thermal and Magnetic protection
- Dry contact for BMS
- MODBus (RS485)
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- Adjustable weekly test run
- Modbus Connection standart.
- P.I.D Regulation

Applications



Pressure Transmitter



Floater Control

Teknik Veri

Technical Data

Mini Speed Mono	COD	VOLTAGE		MAX POWER		CURRENT	BOX DIMENSIONS				WEIGHT
		V-IN	V-OUT	kW	Hp	Max (A)	H	L	W	Materials	KG
Mini Speed 1 - 0.37 / Mono	19001	1-230	3 - 230	0.37	0.5	2.4	400	300	185	ABS	
Mini Speed 1 - 0.55 / Mono	19002	1-230	3 - 230	0.55	0.75	3.6	400	300	185	ABS	
Mini Speed 1 - 0.75 / Mono	19003	1-230	3 - 230	0.75	1	4.7	400	300	185	ABS	
Mini Speed 1 - 1.1 / Mono	19004	1-230	3 - 230	1.1	1.5	6.7	400	300	185	ABS	
Mini Speed 1 - 1.5 / Mono	19005	1-230	3 - 230	1.5	2	7.5	400	300	185	ABS	
Mini Speed 1 - 2.2 / Mono	19006	1-230	3 - 230	2.2	3	9.8	400	300	185	ABS	

Mini Speed Tri-M

Mini Speed Tri-M	COD	VOLTAGE		MAX POWER		CURRENT	BOX DIMENSIONS				WEIGHT
		V-IN	V-OUT	kW	Hp	Max (A)	H	L	W	Materials	KG
Mini Speed 1 - 0.37 / Tri-M	19201	3-230	3-230	0.37	0.5	2.6	400	300	185	ABS	
Mini Speed 1 - 0.55 / Tri-M	19202	3-230	3-230	0.55	0.75	3.9	400	300	185	ABS	
Mini Speed 1 - 0.75 / Tri-M	19203	3-230	3-230	0.75	1	5.2	400	300	185	ABS	
Mini Speed 1 - 1.1 / Tri-M	19204	3-230	3-230	1.1	1.5	7.4	400	300	185	ABS	
Mini Speed 1 - 1.5 / Tri-M	19205	3-230	3-230	1.5	2	8.3	400	300	185	ABS	
Mini Speed 1 - 2.2 / Tri-M	19206	3-230	3-230	2.2	3	10.8	400	300	185	ABS	
Mini Speed 1 - 3 / Tri-M	19207	3-230	3-230	3	4	14.6	400	300	185	ABS	
Mini Speed 1 - 4 / Tri-M	19208	3-230	3-230	4	5.5	19.4	400	300	185	ABS	

Mini Speed Tri

Mini Speed Tri	VOLTAGE			MAX POWER		CURRENT	BOX DIMENSIONS				WEIGHT
	COD	V-IN	V-OUT	kW	Hp	Max (A)	H	L	W	Materials	KG
Mini Speed 1 - 0.75 / Tri	19301	3 - 400	3 - 400	0.75	1	2.6	400	300	185	ABS	
Mini Speed 1 - 1.1 / Tri	19302	3 - 400	3 - 400	1.1	1.5	3.6	400	300	185	ABS	
Mini Speed 1 - 1.5 / Tri	19303	3 - 400	3 - 400	1.5	2	4.5	400	300	185	ABS	
Mini Speed 1 - 2.2 / Tri	19304	3 - 400	3 - 400	2.2	3	6.2	400	300	185	ABS	
Mini Speed 1 - 3 / Tri	19305	3 - 400	3 - 400	3	4	8	400	300	185	ABS	
Mini Speed 1 - 4 / Tri	19306	3 - 400	3 - 400	4	5.5	9.7	400	300	185	ABS	

**It is possible to realize the panel for 5 kW and largest capacity according to demand*

***Please contact us for custom design production*

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Power (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Power	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

Pressure Transmitter



Model	Power (V)	Range Settings
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

Soft Starter Series Control Panel

Softstarter is a full-speed starter that accelerates, decelerates and protects three phase motors. The softstarter controls the voltage applied to the motor by using thyristors which gives it control over current, torque and acceleration. The softstarter's parameters can be configured to match the application's requirements, so that the required current and torque are optimized.



Advantages of soft starters;

- Energy cost reduction for pump system
- Adjustable acceleration time
- Easy adjustment of start performance to suit the specific motor and load.

★ PsE

Electronic control panels with electronic static starters to control three-phase motors with advanced features.



- ◇ Factory equipped with motor circuit protection breaker, Isolating switch with door locking system
- ◇ Different types of connections to start and stop motor such as; flow switch, pressure switches/sensors, temperature sensors, etc.
- ◇ Smart Solutions for applications;

Booster Pumps

Industrial Pumps

HVAC Systems

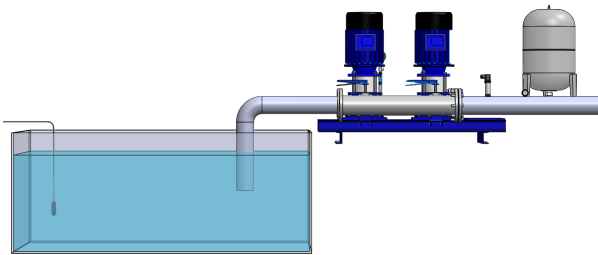
Wastewater Pumps

Irrigation Pumps

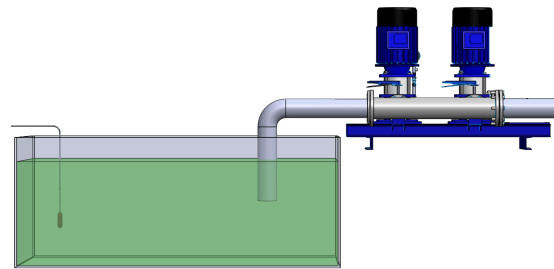
Technical Features

- Metal Enclosure / IP 54
- Graphical Display and keypad
- Main switch with locking mechanism
- Analog Output
- Power supply 3-50/60Hz 400V \pm %10
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Dry running protection
- Dry contact for BMS
- Torque Control
- Event record (Optional)
- By-pass contactor
- MODBus (Optional)
- Internal Ventilation

Applications



Pressure Transmitter



Floater Control

Technical Data

PsE

Soft Starter PsE	VOLTAGE		MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
	CODE	V-	kW	Hp	Range	Max (A)	D	E	G	Material	KG
PsE - 7.5	20201	3 - 400	7.5	10	5.4-18	16	700	500	260	Metallic	
PsE - 11	20202	3 - 400	11	15	7.5-25	25	700	500	260	Metallic	
PsE - 15	20203	3 - 400	15	20	9-30	30	700	500	260	Metallic	
PsE - 18.5	20204	3 - 400	18.5	25	11.1-37	37	700	500	260	Metallic	
PsE - 22	20205	3 - 400	22	30	13.5-45	45	700	500	260	Metallic	
PsE - 30	20206	3 - 400	30	40	18-60	60	1000	700	320	Metallic	
PsE - 37	20207	3 - 400	37	50	21.6-72	72	1000	700	320	Metallic	
PsE - 45	20208	3 - 400	45	60	25.5-85	85	1000	700	320	Metallic	
PsE - 55	20209	3 - 400	55	75	31.8-106	105	1000	700	320	Metallic	
PsE - 75	20210	3 - 400	75	100	42.9-143	143	1000	700	320	Metallic	
PsE - 90	20211	3 - 400	90	125	51.3-171	171	1000	700	320	Metallic	
PsE - 110	20212	3 - 400	110	150	63-210	210	1000	700	320	Metallic	
PsE - 132	20213	3 - 400	132	180	75-250	250	1000	700	320	Metallic	
PsE - 160	20214	3 - 400	160	220	90.6-302	300	1000	700	320	Metallic	
PsE - 200	20215	3 - 400	185	250	111-370	370	1000	700	320	Metallic	

*It is possible to realize the panel for 200 kW and largest capacity according to demand

**Please contact us for custom design production

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Power (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Differential
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

Pressure Transmitter



Model	Power (V)	Range
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

★ PsTx

Electronic control panels with electronic static starters three-phase motors with advanced features.



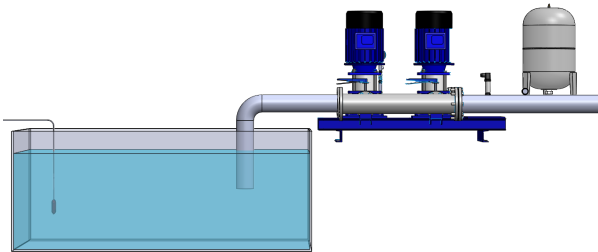
- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Factory equipped with motor circuit protection breaker, Isolating switch with door locking system
- ◇ Different types of connections to start and stop motor such as; flow switch, pressure switches/sensors, temperature sensors, etc.
- ◇ Smart Solutions for applications;

Booster Pumps	Industrial Pumps
HVAC Systems	Wastewater Pumps
Irrigation Pumps	

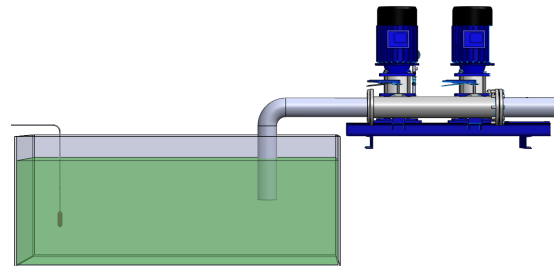
Technical Features

- Metal Enclosure / IP 54 / Watertight / Self-Extinguishing Enclosure
- Deattachable keypad for panel door mounting
- Main switch with locking mechanism
- Auto / Manual Switch
- Power supply 3-50/60Hz 400V \pm 10%
- Protections and Failures;
 - Motor Overcurrent / Low current (Adjustable)
 - Phase Loss and incorrect sequence
 - Min / Max Voltage (Adjustable)
 - Motor starting time
 - Dry running protection
 - Thermal and Magnetic protection
 - Cos Fi Control
 - Ground fault
- Dry contact for BMS Event Record
- Torque Limit and Control
- MODBus (RS485)
- Emergency Mode
- 17 multilanguage options
- Password protection for un-authorized people access.
- Internal Ventilation

Applications



Pressure Transmitter



Floater Control

Technical Data

PsTx

Soft Starter PsTx	CODE	VOLTAGE		MAX		CURRENT		BOX DIMENSIONS			WEIGHT
		V-	kW	Hp	Range	Max	D	E	G	Material	KG
PsTx - 15	20301	3 - 400	15	20	9.0-30	30	600	400	260	Metallic	
PsTx - 18.5	20302	3 - 400	18.5	25	11.1-37	37	600	400	260	Metallic	
PsTx - 22	20303	3 - 400	22	30	13.5-45	45	600	400	260	Metallic	
PsTx - 30	20304	3 - 400	30	40	18-60	60	700	500	260	Metallic	
PsTx - 37	20305	3 - 400	37	50	21.6-72	72	700	500	260	Metallic	
PsTx - 45	20306	3 - 400	45	60	22.5-85	85	700	500	260	Metallic	
PsTx - 55	20307	3 - 400	55	75	31.8-106	106	700	500	260	Metallic	
PsTx - 75	20308	3 - 400	75	100	42.9-143	143	700	500	260	Metallic	
PsTx - 90	20309	3 - 400	90	125	51.3-171	171	700	500	260	Metallic	
PsTx - 110	20310	3 - 400	110	150	63-210	210	1000	700	320	Metallic	
PsTx - 132	20311	3 - 400	132	180	75-250	250	1000	700	320	Metallic	
PsTx - 160	20312	3 - 400	160	220	90-300	300	1000	700	320	Metallic	
PsTx - 200	20313	3 - 400	200	270	111-370	370	1000	700	320	Metallic	
PsTx - 250	20314	3 - 400	250	340	141-470	470	1000	700	320	Metallic	
PsTx - 315	20315	3 - 400	315	430	171-570	570	1000	700	320	Metallic	
PsTx - 400	20316	3 - 400	355	485	216-720	720	1000	700	320	Metallic	

*It is possible to realize the panel for 400 kW and largest capacity according to demand

**Please contact us for custom design production

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Power (V)	Range Settings
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

Pressure Transmitter



Model	Power (V)	Range Settings
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar



Electromechanic Control Panels

Includes different type of electrical components, such as; relays, contactors, selectors, etc.

It can be control up to 4 motors in simultaneously.

★ Start One

Controlling for three-phase motors with direct starter. (Emptying, filling in clean water applications)

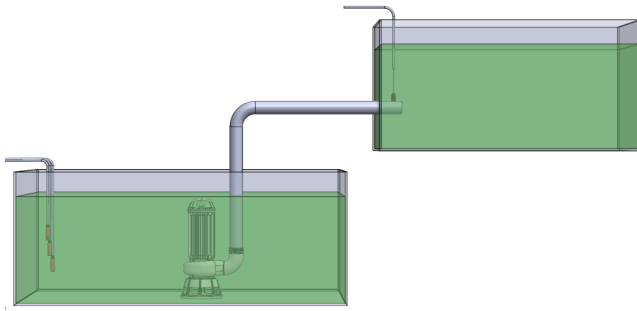
- ◇ Different types of connections to start and stop motor such as; flow switch, level electrode



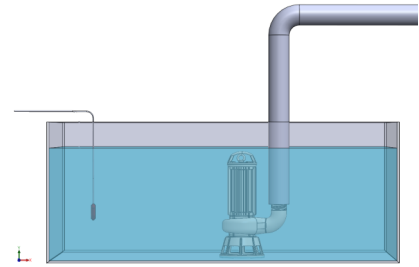
Technical Features

- Thermoplastic (ABS) / IP 54
- Main switch with locking mechanism
- Power supply 3-50/60Hz 400V ±%15
- Green LED for Motor Running / Red LED for failures
- Input for start command
- Volt, Ampere, Alarms, Events and Date & Time Screen on Home Page
- Protections and Failures;
 - Motor Overcurrent
 - Dry running protection
- Motor protection fuses

Applications



Filling and Emptying Applications



Floater Control

Technical Data

Start One

Start One	CODE	VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Start One - 0.37	21001	3 - 400	0.37	0.5	1.0-1.3	1.3	250	200	160	ABS	
Start One - 0.55	21002	3 - 400	0.55	0.75	1.7-2.3	2.3	250	200	160	ABS	
Start One - 0.75	21003	3 - 400	0.75	1	2.3-3.1	3.1	250	200	160	ABS	
Start One - 1.1	21004	3 - 400	1.1	1.5	2.3-3.1	3.1	250	200	160	ABS	
Start One - 1.5	21005	3 - 400	1.5	2	3.1-4.2	4.2	250	200	160	ABS	
Start One - 2.2	21006	3 - 400	2.2	3	5.7-7.6	7.6	250	200	160	ABS	
Start One - 3	21007	3 - 400	3	4	7.6-9	9	250	200	160	ABS	
Start One - 4	21008	3 - 400	4	5.5	7.6-9	9	250	200	160	ABS	
Start One - 5.5	21009	3 - 400	5.5	7.5	10-12	12	250	200	160	ABS	

*It is possible to realize the panel for 7.5 kW and largest capacity according to demand

**Please contact us for custom design production

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Power (V)	Range Settings
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

Pressure Transmitter



Model	Power (V)	Range Settings
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

★ Direct Start

Controller for 4 pump single or three-phase motors with direct starter. (Pressurization, Emptying, filling in waste and clean water applications).

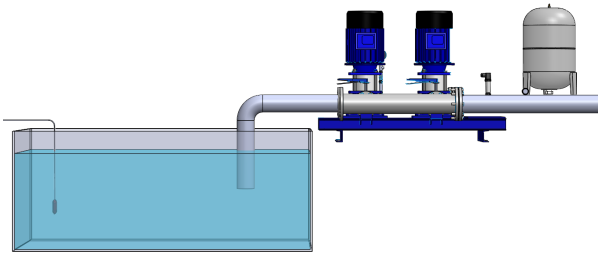
- ◇ Different types of connections to start and stop motor such as; flow switch, level electrode, pressure switches/sensors



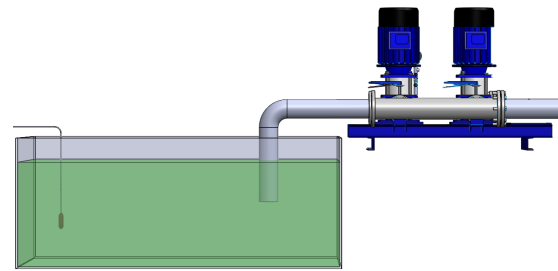
Technical Features

- Metal Enclosure / IP 54
- Main switch with locking mechanism
- Power supply 1-50/60Hz 230V \pm %15
- Power supply 3-50/60Hz 400V \pm %15
- Green LED for Motor Running / Red LED for failures
- Input for start command
- Protections and Failures;
 - Motor Overcurrent
 - Phase Loss and incorrect sequence
 - Dry running protection
- Motor protection fuses
- Adjustable weekly test run

Applications



Pressure Switch



Floater Control

Technical Data

Direct Start 1

Direct Start 1	CODE	VOLTAGE	MAX		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range	Max	D	E	G	Material	KG
Direct Start 1 - 0.37 Mono	22001	1-230	0.37	0.5	4.2-5.7	5.7	310	250	130	ABS	
Direct Start 1 - 0.55 Mono	22002	1-230	0.55	0.75	5.7-7.6	7.6	310	250	130	ABS	
Direct Start 1 - 0.75 Mono	22003	1-230	0.75	1	7.6-9	9	310	250	130	ABS	
Direct Start 1 - 1.1 Mono	22004	1-230	1.1	1.5	10-12	12	310	250	130	ABS	
Direct Start 1 - 1.5 mono	22005	1-230	1.5	2	13-16	16	310	250	130	ABS	
Direct Start 1 - 2.2 Mono	22006	1-230	2.2	3	16-20	20	310	250	130	ABS	
Direct Start 1 - 0.37	22007	3 - 400	0.37	0.5	1.0-1.3	1.3	310	250	130	ABS	
Direct Start 1 - 0.55	22008	3 - 400	0.55	0.75	1.7-2.3	2.3	310	250	130	ABS	
Direct Start 1 - 0.75	22009	3 - 400	0.75	1	2.3-3.1	3.1	310	250	130	ABS	
Direct Start 1 - 1.1	22010	3 - 400	1.1	1.5	2.3-3.1	3.1	310	250	130	ABS	
Direct Start 1 - 1.5	22011	3 - 400	1.5	2	3.1-4.2	4.2	310	250	130	ABS	
Direct Start 1 - 2.2	22012	3 - 400	2.2	3	5.7-7.6	7.6	310	250	130	ABS	
Direct Start 1 - 3	22013	3 - 400	3	4	7.6-9	9	310	250	130	ABS	
Direct Start 1 - 4	22014	3 - 400	4	5.5	7.6-9	9	310	250	130	ABS	
Direct Start 1 - 5.5	22015	3 - 400	5.5	7.5	10-12	12	310	250	130	ABS	
Direct Start 1 - 7.5	22016	3 - 400	7.5	10	13-16	16	310	250	130	ABS	
Direct Start 1 - 9.6	22017	3 - 400	9.6	12.5	16-20	20	310	250	130	ABS	
Direct Start 1 - 11	22018	3 - 400	11	15	20-24	24	310	250	130	ABS	
Direct Start 1 - 15	22019	3 - 400	11	15	29-32	32	400	300	175	ABS	
Direct Start 1 - 18.5	22020	3 - 400	18.5	25	35-38	38	400	300	175	ABS	
Direct Start 1 - 22	22021	3 - 400	22	30	44-50	50	600	400	220	Metallic	
Direct Start 1 - 30	22022	3 - 400	30	40	57-60	60	600	400	220	Metallic	
Direct Start 1 - 37	22023	3 - 400	37	50	65-78	78	600	400	220	Metallic	

Direct Start 2

Direct Start 2	CODE	VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Direct Start 2 - 0.37 Mono	22201	1-230	0.37	0.5	4.2-5.7	5.7	400	300	175	ABS	
Direct Start 2 - 0.55 Mono	22202	1-230	0.55	0.75	5.7-7.6	7.6	400	300	175	ABS	
Direct Start 2 - 0.75 Mono	22203	1-230	0.75	1	7.6-9	9	400	300	175	ABS	
Direct Start 2 - 1.1 Mono	22204	1-230	1.1	1.5	10-12	12	400	300	175	ABS	
Direct Start 2 - 1.5 Mono	22205	1-230	1.5	2	13-16	16	400	300	175	ABS	
Direct Start 2 - 2.2 Mono	22206	1-230	2.2	3	16-20	20	400	300	175	ABS	
Direct Start 2 - 0.37	22207	3 - 400	0.37	0.5	1.0-1.3	1.3	400	300	175	ABS	
Direct Start 2 - 0.55	22208	3 - 400	0.55	0.75	1.7-2.3	2.3	400	300	175	ABS	
Direct Start 2 - 0.75	22209	3 - 400	0.75	1	2.3-3.1	3.1	400	300	175	ABS	
Direct Start 2 - 1.1	22210	3 - 400	1.1	1.5	2.3-3.1	3.1	400	300	175	ABS	
Direct Start 2 - 1.5	22211	3 - 400	1.5	2	3.1-4.2	4.2	400	300	175	ABS	
Direct Start 2 - 2.2	22212	3 - 400	2.2	3	5.7-7.6	7.6	400	300	175	ABS	
Direct Start 2 - 3	22213	3 - 400	3	4	7.6-9	9	400	300	175	ABS	
Direct Start 2 - 4	22214	3 - 400	4	5.5	7.6-9	9	400	300	175	ABS	
Direct Start 2 - 5.5	22215	3 - 400	5.5	7.5	10-12	12	400	300	175	ABS	
Direct Start 2 - 7.5	22216	3 - 400	7.5	10	13-16	16	400	300	175	ABS	
Direct Start 2 - 9,6	22217	3 - 400	9,6	12,5	16-20	20	400	300	175	ABS	
Direct Start 2 - 11	22218	3 - 400	11	15	20-24	24	400	300	175	ABS	
Direct Start 2 - 15	22219	3 - 400	11	15	29-32	32	400	300	175	ABS	
Direct Start 2 - 18.5	22220	3 - 400	18.5	25	35-38	38	400	300	175	ABS	
Direct Start 2 - 22	22221	3 - 400	22	30	44-50	50	600	400	220	Metallic	
Direct Start 2 - 30	22222	3 - 400	30	40	57-60	60	600	400	220	Metallic	
Direct Start 2 - 37	22223	3 - 400	37	50	65-78	78	600	400	220	Metallic	

Direct Start 3

Direct Start 3	CODE	VOLTAGE	MAX		CURRENT		BOX DIMENSIONS			WEIGHT	
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Direct Start 3 - 0.37 Mono	22301	1-230	0.37	0.5	4.2-5.7	5.7	600	400	220	Metallic	
Direct Start 3 - 0.55 Mono	22301	1-230	0.55	0.75	5.7-7.6	7.6	600	400	220	Metallic	
Direct Start 3 - 0.75 Mono	22301	1-230	0.75	1	7.6-9	9	600	400	220	Metallic	
Direct Start 3 - 1.1 Mono	22301	1-230	1.1	1.5	10-12	12	600	400	220	Metallic	
Direct Start 3 - 1.5 Mono	22301	1-230	1.5	2	13-16	16	600	400	220	Metallic	
Direct Start 3 - 2.2 Mono	22301	1-230	2.2	3	16-20	20	600	400	220	Metallic	
Direct Start 3 - 0.37	22301	3 - 400	0.37	0.5	1.0-1.3	1.3	600	400	220	Metallic	
Direct Start 3 - 0.55	22301	3 - 400	0.55	0.75	1.7-2.3	2.3	600	400	220	Metallic	
Direct Start 3 - 0.75	22301	3 - 400	0.75	1	2.3-3.1	3.1	600	400	220	Metallic	
Direct Start 3 - 1.1	22301	3 - 400	1.1	1.5	2.3-3.1	3.1	600	400	220	Metallic	
Direct Start 3 - 1.5	22301	3 - 400	1.5	2	3.1-4.2	4.2	600	400	220	Metallic	
Direct Start 3 - 2.2	22301	3 - 400	2.2	3	5.7-7.6	7.6	600	400	220	Metallic	
Direct Start 3 - 3	22301	3 - 400	3	4	7.6-9	9	600	400	220	Metallic	
Direct Start 3 - 4	22301	3 - 400	4	5.5	7.6-9	9	600	400	220	Metallic	
Direct Start 3 - 5.5	22301	3 - 400	5.5	7.5	10-12	12	600	400	220	Metallic	
Direct Start 3 - 7.5	22301	3 - 400	7.5	10	13-16	16	600	400	220	Metallic	
Direct Start 3 - 9,6	22301	3 - 400	9.6	12,5	16-20	20	600	400	220	Metallic	
Direct Start 3 - 11	22301	3 - 400	11	15	20-24	24	600	400	220	Metallic	
Direct Start 3 - 15	22301	3 - 400	11	15	29-32	32	600	400	220	Metallic	
Direct Start 3 - 18.5	22301	3 - 400	18.5	25	35-38	38	600	400	220	Metallic	
Direct Start 3 - 22	22301	3 - 400	22	30	44-50	50	600	400	220	Metallic	
Direct Start 3 - 30	22301	3 - 400	30	40	57-60	60	700	500	260	Metallic	
Direct Start 3 - 37	22301	3 - 400	37	50	65-78	78	700	500	260	Metallic	

Direct Start 4

Direct Start 4	CODE	VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Direct Start 4 - 0.37	22401	3 - 400	0.37	0.5	1.0-1.3	1.3	700	500	260	Metallic	
Direct Start 4 - 0.55	22402	3 - 400	0.55	0.75	1.7-2.3	2.3	700	500	260	Metallic	
Direct Start 4 - 0.75	22403	3 - 400	0.75	1	2.3-3.1	3.1	700	500	260	Metallic	
Direct Start 4 - 1.1	22404	3 - 400	1.1	1.5	2.3-3.1	3.1	700	500	260	Metallic	
Direct Start 4 - 1.5	22405	3 - 400	1.5	2	3.1-4.2	4.2	700	500	260	Metallic	
Direct Start 4 - 2.2	22406	3 - 400	2.2	3	5.7-7.6	7.6	700	500	260	Metallic	
Direct Start 4 - 3	22407	3 - 400	3	4	7.6-9	9	700	500	260	Metallic	
Direct Start 4 - 4	22408	3 - 400	4	5.5	7.6-9	9	700	500	260	Metallic	
Direct Start 4 - 5.5	22409	3 - 400	5.5	7.5	10-12	12	700	500	260	Metallic	
Direct Start 4 - 7.5	22410	3 - 400	7.5	10	13-16	16	700	500	260	Metallic	
Direct Start 4 - 9,6	22411	3 - 400	9.6	12.5	16-20	20	700	500	260	Metallic	
Direct Start 4 - 11	22412	3 - 400	11	15	20-24	24	700	500	260	Metallic	
Direct Start 4 - 15	22413	3 - 400	11	15	29-32	32	700	500	260	Metallic	
Direct Start 4 - 18.5	22414	3 - 400	18.5	25	35-38	38	700	500	260	Metallic	
Direct Start 4 - 22	22415	3 - 400	22	30	44-50	50	700	500	260	Metallic	
Direct Start 4 - 30	22416	3 - 400	30	40	57-60	60	800	600	260	Metallic	
Direct Start 4 - 37	22417	3 - 400	37	50	65-78	78	800	600	260	Metallic	

**It is possible to realize the panel for 45 kW and largest capacity according to demand*

***Please contact us for custom design production*

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Power (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Differential
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

Pressure Transmitter



Model	Power (V)	Range
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

★ Star Delta Start

Controller for 4 pump single or three-phase motors with direct starter. (Pressurization, Emptying, filling in waste and clean water applications).

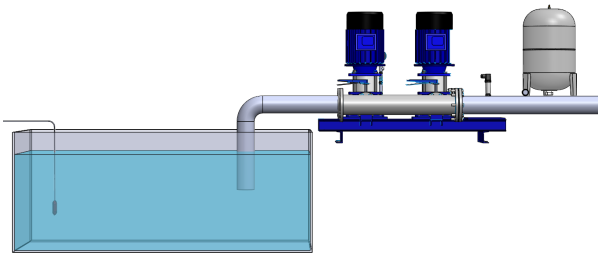
- ◇ Different types of connections to start and stop motor such as; flow switch, level electrode, pressure switches/sensors



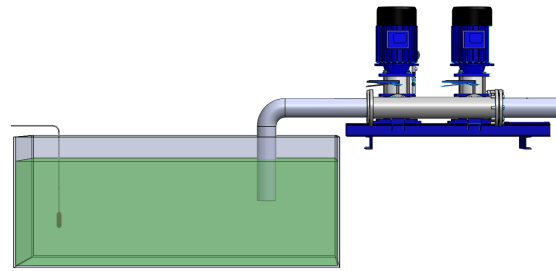
Technical Features

- Metal Enclosure / IP 54
- Main switch with locking mechanism
- Power supply 3-50/60Hz 400V \pm %15
- Green LED for Motor Running / Red LED for failures
- Input for start command
- Protections and Failures;
 - Motor Overcurrent
 - Phase Loss and incorrect sequence
 - Dry running protection
- Motor protection fuses
- Star Delta Contactor AC3
- Adjustable weekly test run
- Solenoid Valve output

Applications



Pressure Switch



Float Control

Technical Data

Star Delta Start 1

Stardelta Start 1		VOLTAGE	MAX		CURRENT		BOX DIMENSIONS				WEIGHT
	CODE	V-	kW	Hp	Range	Max	D	E	G	Material	KG
Stardelta Start 1 - 5.5	23001	3 - 400	5.5	7.5	7.6-10	15	400	300	175	ABS	
Stardelta Start 1 - 7.5	23002	3 - 400	7.5	10	7.6-10	17	400	300	175	ABS	
Stardelta Start 1 - 11	23003	3 - 400	11	15	13-16	24	400	300	175	ABS	
Stardelta Start 1 - 15	23004	3 - 400	11	15	16-20	31	600	400	220	Metallic	
Stardelta Start 1 - 18.5	23005	4 - 400	18.5	25	20-24	38	600	400	220	Metallic	
Stardelta Start 1 - 22	23006	5 - 400	22	30	29-35	50	600	400	220	Metallic	
Stardelta Start 1 - 30	23007	6 - 400	30	40	35-38	60	600	400	220	Metallic	
Stardelta Start 1 - 37	23008	7 - 400	37	50	44-53	75	600	400	220	Metallic	
Stardelta Start 1 - 45	23009	8 - 400	45	60	50-60	100	600	400	220	Metallic	
Stardelta Start 1 - 55	23010	9 - 400	55	75	65-78	124	700	500	260	Metallic	
Stardelta Start 1 - 75	23011	10 - 400	75	100	75-87	135	700	500	260	Metallic	
Stardelta Start 1 - 90	23012	11 - 400	90	125	80-110	155	800	600	260	Metallic	
Stardelta Start 1 - 110	23013	12 - 400	110	150	100-135	200	800	600	260	Metallic	
Stardelta Start 1 - 132	23014	13 - 400	132	180	110-142	241	1000	700	320	Metallic	
Stardelta Start 1 - 160	23015	14 - 400	160	220	150-200	300	1000	700	320	Metallic	
Stardelta Start 1 - 200	23016	15 - 400	185	250	115-380	410	1200	800	320	Metallic	

Star Delta Start 2

Stardelta Start 2		VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
	CODE	V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Stardelta Start 2 - 5.5	23201	3 - 400	5.5	7.5	7,6-10	15	600	400	220	Metallic	
Stardelta Start 2 - 7.5	23202	3 - 400	7.5	10	7,6-10	17	600	400	220	Metallic	
Stardelta Start 2 - 11	23203	3 - 400	11	15	13-16	24	600	400	220	Metallic	
Stardelta Start 2 - 15	23204	3 - 400	11	15	16-20	31	600	400	220	Metallic	
Stardelta Start 2 - 18.5	23205	4 - 400	18.5	25	20-24	38	700	500	260	Metallic	
Stardelta Start 2 - 22	23206	5 - 400	22	30	29-35	50	700	500	260	Metallic	
Stardelta Start 2 - 30	23207	6 - 400	30	40	35-38	60	800	600	260	Metallic	
Stardelta Start 2 - 37	23208	7 - 400	37	50	44-53	75	800	600	260	Metallic	
Stardelta Start 2 - 45	23209	8 - 400	45	60	50-60	100	1000	700	320	Metallic	
Stardelta Start 2 - 55	23210	9 - 400	55	75	65-78	124	1000	700	320	Metallic	
Stardelta Start 2 - 75	23211	10 - 400	75	100	75-87	135	1200	800	320	Metallic	
Stardelta Start 2 - 90	23212	11 - 400	90	125	80-110	155	1200	800	320	Metallic	
Stardelta Start 2 - 110	23213	12 - 400	110	150	100-135	200	1200	800	320	Metallic	
Stardelta Start 2 - 132	23214	13 - 400	132	180	110-142	241	1600	900	400	Metallic	
Stardelta Start 2 - 160	23215	14 - 400	160	220	150-200	300	1600	900	400	Metallic	
Stardelta Start 2 - 200	23216	15 - 400	185	250	115-380	410	1800	1100	450	Metallic	

Star Delta Start 3

Stardelta Start 3		VOLTAGE	MAX		CURRENT		BOX DIMENSIONS				WEIGHT
	CODE	V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Stardelta Start 3 - 5.5	23301	3 - 400	5.5	7.5	7.6-10	15	700	500	260	Metallic	
Stardelta Start 3 - 7.5	23302	3 - 400	7.5	10	7.6-10	17	700	500	260	Metallic	
Stardelta Start 3 - 11	23303	3 - 400	11	15	13-16	24	700	500	260	Metallic	
Stardelta Start 3 - 15	23304	3 - 400	11	15	16-20	31	700	500	260	Metallic	
Stardelta Start 3 - 18.5	23305	4 - 400	18.5	25	20-24	38	800	600	260	Metallic	
Stardelta Start 3 - 22	23306	5 - 400	22	30	29-35	50	800	600	260	Metallic	
Stardelta Start 3 - 30	23307	6 - 400	30	40	35-38	60	1000	700	320	Metallic	
Stardelta Start 3 - 37	23308	7 - 400	37	50	44-53	75	1000	700	320	Metallic	
Stardelta Start 3 - 45	23309	8 - 400	45	60	50-60	100	1200	800	320	Metallic	
Stardelta Start 3 - 55	23310	9 - 400	55	75	65-78	124	1200	800	320	Metallic	
Stardelta Start 3 - 75	23311	10 - 400	75	100	75-87	135	1600	900	400	Metallic	
Stardelta Start 3 - 90	23312	11 - 400	90	125	80-110	155	1600	900	400	Metallic	
Stardelta Start 3 - 110	23313	12 - 400	110	150	100-135	200	1800	1100	450	Metallic	
Stardelta Start 3 - 132	23314	13 - 400	132	180	110-142	241	1800	1100	450	Metallic	
Stardelta Start 3 - 160	23315	14 - 400	160	220	150-200	300	1800	1100	450	Metallic	
Stardelta Start 3 - 200	23316	15 - 400	185	250	115-380	410	2100	1400	500	Metallic	

Star Delta Start 4

Stardelta Start 4	CODE	VOLTAGE	MAX POWER		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	D	E	G	Material	KG
Stardelta Start 4 - 5.5	23401	3 - 400	5.5	7.5	7.6-10	15	800	600	260	Metallic	
Stardelta Start 4 - 7.5	23402	3 - 400	7.5	10	7.6-10	17	800	600	260	Metallic	
Stardelta Start 4 - 11	23403	3 - 400	11	15	13-16	24	800	600	260	Metallic	
Stardelta Start 4 - 15	23404	3 - 400	11	15	16-20	31	800	600	260	Metallic	
Stardelta Start 4 - 18.5	23405	4 - 400	18.5	25	20-24	38	1000	700	320	Metallic	
Stardelta Start 4 - 22	23406	5 - 400	22	30	29-35	50	1000	700	320	Metallic	
Stardelta Start 4 - 30	23407	6 - 400	30	40	35-38	60	1200	800	340	Metallic	
Stardelta Start 4 - 37	23408	7 - 400	37	50	44-53	75	1200	800	340	Metallic	
Stardelta Start 4 - 45	23409	8 - 400	45	60	50-60	100	1200	800	340	Metallic	
Stardelta Start 4 - 55	23410	9 - 400	55	75	65-78	124	1750	940	450	Metallic	
Stardelta Start 4 - 75	23411	10 - 400	75	100	75-87	135	1750	940	450	Metallic	
Stardelta Start 4 - 90	23412	11 - 400	90	125	80-110	155	2100	1400	500	Metallic	
Stardelta Start 4 - 110	23413	12 - 400	110	150	100-135	200	2100	1400	500	Metallic	
Stardelta Start 4 - 132	23414	13 - 400	132	180	110-142	241	2100	1400	500	Metallic	
Stardelta Start 4 - 160	23415	14 - 400	160	220	150-200	300	2100	1400	500	Metallic	
Stardelta Start 4 - 200	23416	15 - 400	185	250	115-380	410	2100	1400	500	Metallic	

*It is possible to realize the panel for 200 kW and largest capacity according to demand

**Please contact us for custom design production

Optional Accessories

Floater



Model	mt
F-S/5	5
P-T/10	10
P-T/15	15
P-T/20	20

Level Electrode



Model	Power (V)	Range
L-E/5	12	10 Bar

Pressure Switch



Model	Range	Differential
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

Pressure Transmitter



Model	Power (V)	Range
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar



Firefighting System Control Panels

★ Diesel EN Series

Diesel Engine Fire Pump Control Panels with smart user interface operates the system according to EN12845.

- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Factory equipped with Isolating switch with door locking system
- ◇ Different types of connections to start and stop motor such as; flow switch, pressure switches/sensors, valve etc.



Technical Features

- Metal Enclosure / IP 54
- Main switch with locking mechanism
- Key Selector Auto / Off / Manual Switch
- Power supply 1-50/60Hz 230V \pm 10%
- DC Supply 12V or 24V
- Push-button for manual emergency start (Breakable Cover)
- Alarms and signals;
 - Auto Mod disabled
 - Common Failure
 - Engine running
 - Weekly Test run
 - DC Voltage displays
 - Fuel level
 - Room temperature
 - AC current and voltage displays
 - Engine oil pressure
 - Engine coolant temperature
 - Automatic / Manual mode displays
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- Adjustable weekly test run
- MODBus Connection
- Maintenance time displays and messages
- Parameter setting via NFC
- Alarm outputs (NC-5A/250V)

Teknik Data

Diesel EN Control Panels

DIESEL-EN		VOLTAGE	BATTERIES		CURRENT	BOX DIMENSIONS				WEIGHT
	COD	V-IN	Q.t.y	Voltage	Starting	H	L	W	Material	KG
DIESEL-EN	24001	1-230	1	12 VDC	200 A	700	400	200	Metallic	
DIESEL-EN	24010	1-230	2	12 VDC	-	600	400	200	Metallic	
DIESEL-EN	24101	1-230	2	24 VDC	-	600	400	200	Metallic	
DIESEL-EN PLUS 500	24020	1-230	2	12 VDC	500 A	700	400	200	Metallic	
DIESEL-EN PLUS 800	24030	1-230	2	12 VDC	800 A	700	400	200	Metallic	
DIESEL-EN PLUS 500	24201	1-230	2	24 VDC	500 A	700	400	200	Metallic	
DIESEL-EN PLUS 800	24301	1-230	2	24 VDC	800 A	700	400	200	Metallic	

Optional Accessories

Pressure Transmitter



Model	Power (V)	Range Settings
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

★ Direct EN Series

Electric Motor Fire Pump Control Panels with smart user interface operates the system according to EN12845.

- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Factory equipped with Isolating switch with door locking system
- ◇ Different types of connections to start and stop motor such as; flow switch, pressure switches/sensors, valve etc.



Technical Features

- Metal Enclosure / IP 54
- Main switch with locking mechanism
- Auto / Off / Manual Switch
- 128 x 64 LCD Graphical Display
- Green LED for Motor Running / Red LED for failures
- Power supply 3-50/60Hz 400V \pm %15
- Input for start command
- Lamp test function
- Push-buttons for pump Start/Stop in manual test
- Alarms and signals;
 - Motor Overcurrent (Adjustable)
 - Motor low current (Adjustable)
 - Phase Loss failure (Adjustable)
 - Phase Sequence failure (Adjustable)
 - Min / max voltage (Adjustable)
 - Motor starting time
 - Power AC available
 - Pump on Demand
 - Pump start failed
 - Pump running
- MODBus (RS485)
- Line Contactor AC3
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- Adjustable weekly test run
- Maintenance time displays and messages
- Solenoid Valve Output
- Alarm outputs (NC-5A/250V)

Technical Data

Direct EN Control Panel

Direct EN	COD	VOLTAGE	MAX POWER		CURRENT	BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Max (A)	H	L	W	Materials	KG
Direct-EN/4	25001	3 - 400	4	5.5	9	600	400	200	Metallic	
Direct-EN/5.5	25002	3 - 400	5.5	7.5	12	600	400	200	Metallic	
Direct-EN/7.5	25003	3 - 400	7.5	11	16	600	400	200	Metallic	
Direct-EN/9.2	25004	4 - 400	9.2	12.5	20	600	400	200	Metallic	
Direct-EN/11	25005	3 - 400	11	15	25	600	400	200	Metallic	
Direct-EN/15	25006	3 - 400	15	20	32	600	400	200	Metallic	
Direct-EN/18.5	25007	3 - 400	18.5	25	40	600	400	200	Metallic	
Direct-EN/22	25008	3 - 400	22	30	50	600	400	200	Metallic	

**It is possible to realize the panel for 30 kW and largest capacity according to demand*

***Please contact us for custom design production*

Optional Accessories

Pressure Transmitter



Model	Power (V)	Range Settings
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

★ Star Delta EN Series

Electric Motor Fire Pump Control Panels with smart user interface operates the system according to EN12845.

- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Factory equipped with Isolating switch with door locking system
- ◇ Different types of connections to start and stop motor such as; pressure switches/sensors



Technical Features

- Metal Enclosure / IP 54
- Main switch with locking mechanism
- Auto / Off / Manual Switch
- 128 x 64 LCD Graphical Display
- Green LED for Motor Running / Red LED for failures
- Power supply 3-50/60Hz 400V \pm %15
- Input for start command
- Lamp test function
- Push-buttons for pump Start/Stop in manual test
- Alarms and signals;
 - Motor Overcurrent (Adjustable)
 - Motor low current (Adjustable)
 - Phase Loss failure (Adjustable)
 - Phase Sequence failure (Adjustable)
 - Min / max voltage (Adjustable)
 - Motor starting time
 - Power AC available
 - Pump on Demand
 - Pump start failed
 - Pump running
- MODBus (RS485)
- Star Delta Contactor AC3
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- Adjustable weekly test run
- Maintenance time displays and messages
- Solenoid Valve Output

Technical Data

Star Delta EN Control Panels

Stardelta-EN	VOLTAGE		MAX		CURRENT	BOX DIMENSIONS			WEIGHT	
	COD	V-	kW	Hp	Max (A)	H	L	W	Materials	KG
Stardelta-EN/5.5	25101	3 - 400	5.5	7.5	15	600	400	200	Metallic	
Stardelta-EN/7.5	25102	3 - 400	7.5	10	17	600	400	200	Metallic	
Stardelta-EN/11	25103	3 - 400	11	15	24	600	400	200	Metallic	
Stardelta-EN/15	25104	3 - 400	11	15	31	600	400	200	Metallic	
Stardelta-EN/18.5	25105	3 - 400	18.5	25	38	600	400	200	Metallic	
Stardelta-EN/22	25106	3 - 400	22	30	50	600	400	200	Metallic	
Stardelta-EN/30	25107	3 - 400	30	40	60	700	500	240	Metallic	
Stardelta-EN/37	25108	3 - 400	37	50	75	700	500	240	Metallic	
Stardelta-EN/45	25109	3 - 400	45	60	100	700	500	240	Metallic	
Stardelta-EN/55	25110	3 - 400	55	75	124	700	500	240	Metallic	
Stardelta-EN/75	25111	3 - 400	75	100	135	800	600	260	Metallic	
Stardelta-EN/90	25112	3 - 400	90	125	155	800	600	260	Metallic	
Stardelta-EN/110	25113	3 - 400	110	150	200	800	600	260	Metallic	
Stardelta-EN/132	25114	3 - 400	132	180	241	1000	700	320	Metallic	
Stardelta-EN/160	25115	3 - 400	160	220	300	1200	800	340	Metallic	
Stardelta-EN/200	25116	3 - 400	185	250	410	1300	900	380	Metallic	

**It is possible to realize the panel for 250 kW and largest capacity according to demand*

***Please contact us for custom design production*

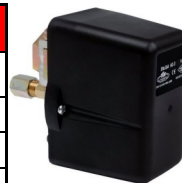
Optional Accessories

Pressure Transmitter



Model	Power (V)	Range Settings
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

★ Jockey EN Series

Jockey Pump Fire Pump Control Panels operates the system according to EN12845.

- ◇ Factory equipped with Isolating switch with door locking system
- ◇ Different types of connections to start and stop motor such as; pressure switches/sensors,



Technical Features

- Metal Enclosure / IP 54
- Main switch with locking mechanism
- Green LED for Motor Running / Red LED for failures
- Power supply 3-50/60Hz 400V \pm %15
- Input for Start Command
- Alarms and signals;
 - Motor Overcurrent (Adjustable)
 - Motor low current (Adjustable)
 - Phase Loss failure (Adjustable)
 - Phase Sequence failure (Adjustable)
 - Min / max voltage (Adjustable)
 - Motor starting time
- Adjustable weekly test run
- Alarm outputs (NC-5A/250V)

Technical Data

Jockey EN Control Panel

Jockey EN	COD	VOLTAGE	MAX		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	H	L	W	Materials	KG
Jockey/EN - 0.55	25401	3 - 400	0.55	0.75	1.7-2.3	2.3	400	300	175	Metallic	
Jockey/EN - 0.75	25402	3 - 400	0.75	1	3.1-4.2	4.2	400	300	175	Metallic	
Jockey/EN - 1.1	25403	3 - 400	1.1	1.5	3.1-4.2	4.2	400	300	175	Metallic	
Jockey/EN - 1.5	25404	3 - 400	1.5	2	5.7-7.6	7.6	400	300	175	Metallic	
Jockey/EN - 2.2	25405	3 - 400	2.2	3	7.6-9	9	400	300	175	Metallic	
Jockey/EN - 3	25406	3 - 400	3	4	10-12	12	400	300	175	Metallic	
Jockey/EN - 4	25407	3 - 400	4	5.5	10-12	12	400	300	175	Metallic	
Jockey/EN - 5.5	25408	3 - 400	5.5	7.5	13-16	16	400	300	175	Metallic	
Jockey/EN - 7.5	25409	3 - 400	7.5	10	16-20	20	400	300	175	Metallic	
Jockey/EN - 9.2	25410	3 - 400	9.2	12.5	20-24	24	400	300	175	Metallic	
Jockey/EN - 11	25411	3 - 400	11	15	29-32	32	400	300	175	Metallic	
Jockey/EN - 15	25412	3 - 400	15	20	35-38	38	400	300	175	Metallic	

*It is possible to realize the panel for 18.5 kW and largest capacity according to demand

**Please contact us for custom design production

Optional Accessories

Pressure Transmitter



Model	Power (V)	Range Settings
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

★ Smart Jockey EN Series

Jockey Pump Fire Pump Control Panels with smart user interface operates the system according to EN12845.

- ◇ Easy and quick set-up features with navigation buttons and readable LCD display
- ◇ Factory equipped with Isolating switch with door locking system
- ◇ Different types of connections to start and stop motor such as; pressure switches/sensors, etc.



Technical Features

- Metal Enclosure / IP 54
- Main switch with locking mechanism
- 128 x 64 LCD Graphical Display
- Green LED for Motor Running / Red LED for failures
- Power supply 3-50/60Hz 400V \pm 15%
- Input for Start Command
- Alarms and signals;
 - Motor Overcurrent (Adjustable)
 - Motor low current (Adjustable)
 - Phase Loss failure (Adjustable)
 - Phase Sequence failure (Adjustable)
 - Min / max voltage (Adjustable)
 - Motor starting time
- MODBus (RS485)
- Password protection for un-authorized people access.
- USB port for downloading failures, messages, events and alarms with date&time. (Last 500)
- Adjustable weekly test run
- Maintenance time displays and messages
- Alarm outputs (NC-5A/250V)

Technical Data

Smart Jockey EN Control Panel

Smart Jockey EN	COD	VOLTAGE		MAX		CURRENT		BOX DIMENSIONS				WEIGHT
		V-	kW	Hp	Range (A)	Max (A)	H	L	W	Materials	KG	
Smart Jockey/EN-4	25301	3 - 400	4	5.5	7.6-9	9	400	300	175	Metallic		
Smart Jockey/EN-5.5	25302	3 - 400	5.5	7.5	10-12	12	400	300	175	Metallic		
Smart Jockey/EN-7.5	25303	3 - 400	7.5	10	2.6-16	16	400	300	175	Metallic		
Smart Jockey/EN-11	25304	3 - 400	11	15	16-25	25	400	300	175	Metallic		
Smart Jockey/EN-15	25305	3 - 400	15	20	16-32	32	400	300	175	Metallic		

**It is possible to realize the panel for 18.5 kW and largest capacity according to demand*

***Please contact us for custom design production*

Optional Accessories

Pressure Transmitter



Model	Power (V)	Range Settings
P-T/10	12	10 Bar
P-T/16	12	16 Bar
P-T/25	12	25 Bar
P-T/40	12	40 Bar

Pressure Switch



Model	Range	Range Settings
P-S/10	1-5 Bar	10 Bar
P-S/16	3-12 Bar	16 Bar
P-S/25	2-14 Bar	25 Bar

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