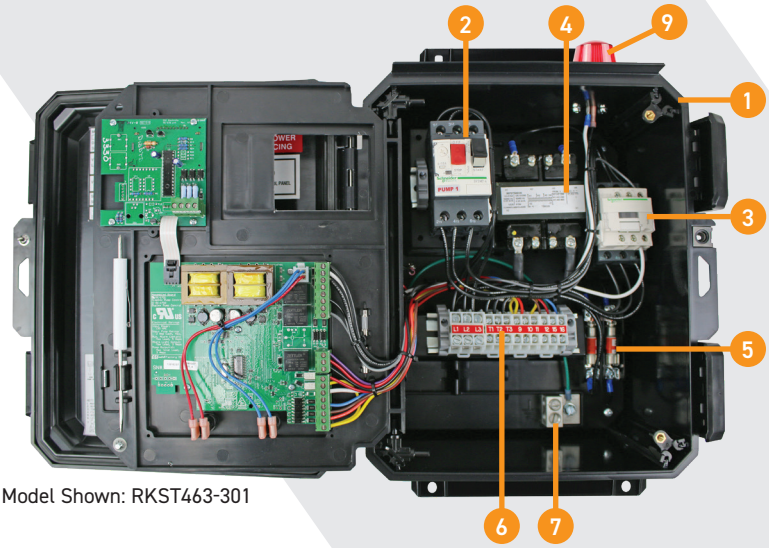
RK Series™ Three Phase Simplex 4-20mA Control Panel

Three Phase, Simplex 4-20mA Continuous Level Control System for Pump Control and System Monitoring



Model Shown: RKST463-301

The **RK Series™ Three Phase Simplex 4-20 mA continuous level sensing** panel is designed to control one 208/230/460 VAC three phase pump in water and sewage installations. The protective inner door features panel operating status indicators, LCD display, control buttons and provides access to the pump motor protection switch. Panel is designed for 4-20mA input and 2-float backup control.

FEATURES

- 4-20mA input for continuous level sensing
- High level backup float input with LED status indicator
- High level backup float mode provides pump timer control activation
- Low level redundant off float input with LED status indicator
- Digital backlit LCD for easy setup and system monitoring
- Timed dose or demand dose field programmable
- Flashing red 360° alarm beacon with horn, includes innovative touch to silence pad, touch to test
- Pump push to run with low level protection when activated manually
- Includes easy access touch safe fuses
- Five-year limited warranty on panel
- Two-year limited warranty on 4-20mA transmitters

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US Patent No.
7,075,443 and 7,471,207

COMPONENTS

1. NEMA 4X enclosure rated for indoor or outdoor use
   a. Padlockable cover with quarter turn stainless steel set screw and (2) heavy duty latches that can be secured for added safety
   b. Drip shield
   c. Integral mounting flanges
2. Motor protective switch provides the adjustable overload, branch circuit protection, and pump disconnect
3. IEC motor contactor controls the pump motor load by switching the electrical lines
4. Multitap transformer (208/230/460 VAC primary) provides 115 VAC control/alarm voltage
5. Primary transformer voltage fuses provides transformer short circuit protection
6. Terminal Strip field wiring of incoming power, backup floats, submersible level transmitter, and pump
7. Ground lugs
8. Molded inner door provides access to circuit breakers, and mounting location for indicators, display, and control buttons
   a. Digital 32-character backlit LCD display
   b. Green LEDs indicate control and alarm circuit power
   c. Red LEDs indicate when either control or alarm fuse is blown
   d. Backup Float Status LED indicator (green=low level redundant off, red=high level)
   e. Amber LED indicates backup float control mode activated
   f. Green Pump Run LED indicates when pump is called to run
   g. Pump Hand/Run button operates the pump manually
   h. Alarm Test/Silence reset button
   i. Red LED indicate high water alarm
9. 360° red alarm beacon for visual alert
10. Piezo audible alarm (not shown)
11. Alarm silence touch pad (not shown)

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RK SERIES™ THREE PHASE SIMPLEX 4-20mA CONTROL PANEL

Model	FLA Range	Enclosure Type	Input Power VAC - PH	Circuit Breakers
RKST463-001	1.0-1.6	NEMA 4X	208/230/460-3	Motor
RKST463-101	1.6-2.5	NEMA 4X	208/230/460-3	Motor
RKST463-201	2.5-4.0	NEMA 4X	208/230/460-3	Motor
RKST463-301	4.0-6.3	NEMA 4X	208/230/460-3	Motor
RKST463-401	6.0-10.0	NEMA 4X	208/230/460-3	Motor
RKST463-511	9.0-14.0	NEMA 4X	208/230/460-3	Motor
RKST463-611	13.0-18.0	NEMA 4X	208/230/460-3	Motor
RKST463-621	17.0-23.0	NEMA 4X	208/230/460-3	Motor
RKST463-701	20.0-25.0	NEMA 4X	208/230/460-3	Motor
RKST463-801	24.0-32.0	NEMA 4X	208/230/460-3	Motor

Options	Description
AMB	Amber beacon (red beacon is standard)
FC20	(2) 20 foot (6.1m) mechanical control switches / pipe clamp
FC20CW	(2) 20 foot (6.1m) mechanical control switches / cable weight
FR20	(2) 20 foot (6.1m) mercury control switches / pipe clamp
FR20CW	(2) 20 foot (6.1m) mercury control switches / cable weight
FC30	(2) 30 foot (9.1m) mechanical control switches / pipe clamp
FC30CW	(2) 30 foot (9.1m) mechanical control switches / cable weight
FR30	(2) 30 foot (9.1m) mercury control switches / pipe clamp
FR30CW	(2) 30 foot (9.1m) mercury control switches / cable weight
FC50	(2) 50 foot (15.2m) mechanical control switches / pipe clamp
FC50CW	(2) 50 foot (15.2m) mechanical control switches / cable weight
FR50	(2) 50 foot (15.2m) mercury control switches / pipe clamp
FR50CW	(2) 50 foot (15.2m) mercury control switches / cable weight
GR	Gray enclosure (black enclosure is standard)
HS	Heat Sensor Terminals
HTR	Anti-Condensation Heater
LA	Lightning Arrestor
SF	Seal Failure Indicator Light
TC25	(1) CS4-20 transmitter 100 inWC with 25 foot cable (backup floats recommended, add float code option)
TC50	(1) CS4-20 transmitter 100 inWC with 50 foot cable (backup floats recommended, add float code option)
TS25	(1) SLX transmitter 16.7 ftWC with 25 foot cable (backup floats recommended, add float code option)
TS50	(1) SLX transmitter 16.7 ftWC with 50 foot cable (backup floats recommended, add float code option)
X	Auxiliary Alarm Contacts

SEE PRICE BOOK FOR LIST PRICE.

SPECIFICATIONS

VOLTAGE SUPPLY: 208/230/460 VAC 60 Hz 3Ø
ENCLOSURE: 12 x 10 x 6 inch (30.5 x 25.4 x 15.2 cm)
NEMA 4X ultraviolet stabilized thermoplastic rated for indoor/outdoor use with integral mounting flange, padlockable cover with (2) heavy duty thermoplastic latches, and stainless steel 1/4 turn set screw
INNER DOOR: molded thermoplastic
FLOAT CONTROL VOLTAGE: 115 VAC
MOTOR STARTER: IEC motor protection switch and IEC motor contactor
PUMP AMPS: 1-32 Amps
LCD DISPLAY: 2-16 character lines, backlight
ALARM HORN: 83-85 decibel rating
FLASHING RED LED ALARM LIGHT 360°

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California Prop 65 requires the following: ⚠ WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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