

Control Panels – Technical Data Sheet



For Water and Wastewater Applications



Applications

RH₂O® Control Panels control and monitor pumps, blowers, aerators and other devices with extensive user-defined options for Time and Demand Dosing of Pumps, Chemical Dosing, Aeration Systems, and other devices. RH₂O® Control Panels are designed specifically for pump stations, water and wastewater treatment systems, monitoring stations, etc. with up to 8 outputs per panel. Each panel allows for flexible use of inputs including floats, transducers or pressure sensors to trigger operation cycles, alarms or events. Outputs can also be controlled by inputs, time schedule or in parallel with other outputs.

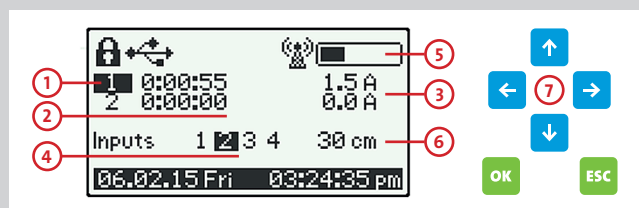
Add click + clean® communication module to access a full suite of Remote Management features.

Features/Unique Specifications

- › Current and fuse monitoring on each output (current sensing)
- › 4 standard inputs available (2 digital, 2 selectable digital/analog); accepts 4-20 mA or 0-10 V sensors, floats, transducers, analyzers, temperature, etc.
- › Option for additional inputs available
- › True Duplex Redundancy (automatic switch-over operation on failed output, i. e., if a pump fails, the standby pump will be assigned schedule of duty pump and continue to alarm)
- › Easy setup via Touch Pad & Graphical Display
- › Main disconnect with Lockout
- › Battery Backup for local and remote notification of power loss
- › Programmable settings for optional alarms, overrides, duplex pairs, backup floats and more
- › Selectable control modes for Time Dosing, Demand Dosing, Chemical Dosing, Aeration, etc. with alternate timing cycles available
- › PC Software interface for simplified local setup and remote control
- › Programmable Silence Mode
- › Elapsed time meter for each output stored as total and by calendar week
- › Visual and Audible (103 db) indicator for alarms
- › 120-240 V/1-phase and/or 208-240 V/3-phase available
- › NEMA 4X rated polycarbonate enclosure
- › Upgradable Firmware

Easy-to-use Interface

Key information is displayed in real-time on the main screen:



- 1 Status of each Output (Duplex Display menu shown above)
- 2 Active and Inactive Count-Down Timers
- 3 Real-time Current Monitor
- 4 Active/Inactive Status of Inputs
- 5 Cellular Signal Strength
- 6 Tank Water Level from Pressure Sensor
- 7 Touch Interface to program panel and access other screens (i. e., Reports, Elapsed Time, etc.)

Click + Clean® Remote Management enables:

- › 2-way remote telemetry: panel sends alerts regarding system conditions, and all settings and parameters can be monitored/programmed remotely
- › Ethernet and cellular support available
- › Immediate alarms via e-mail
- › Secure VPN access to panels
- › Web-based datalogging and reporting

Web-based Overview of All Systems

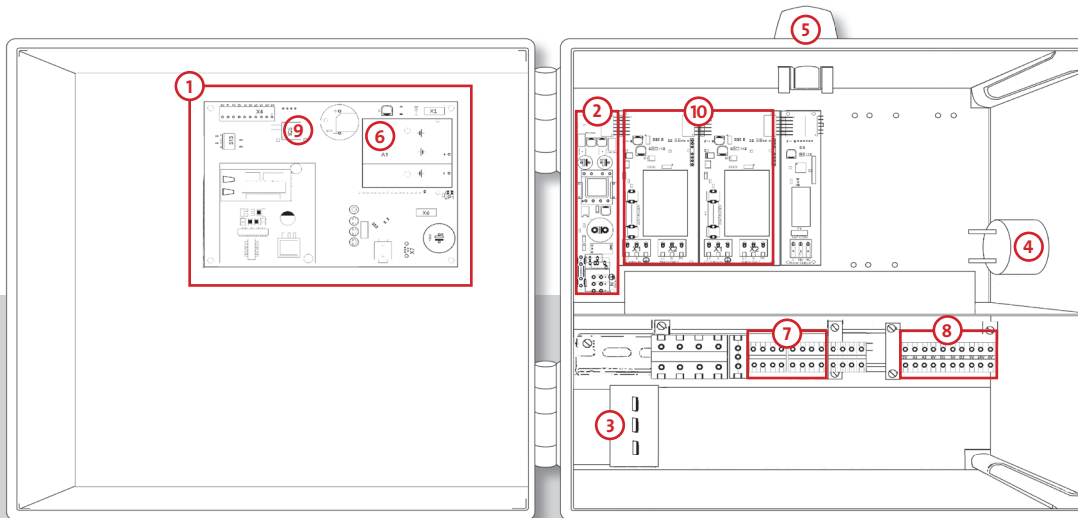
Webviewer enables:

- › Daily Reports on all Click + Clean® installations
- › Data logging and graphic display of run-time and flow
- › Unlimited storage of error, status updates, run-times, and flow/sensor data

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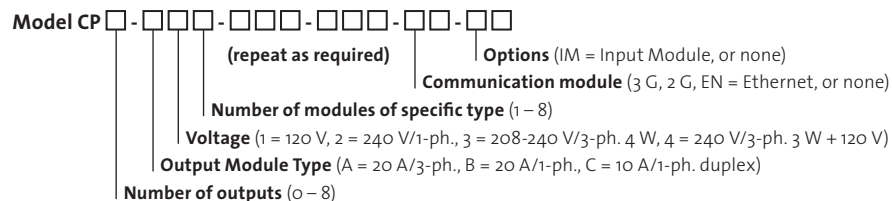


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Label	Function	Specifications
1	Logic PCB Unit	Programmable logic unit with built-in LCD screen and keys for onsite programming of panel functions
2	Power PCB Unit	120-240 V 60 Hz 50 Va Fuse: 500 mA, 250 V, Slow Blow
3	Disconnect Switch	120-240 V/3-phase, max. 25 A per phase (or max. 52 A per phase optional) Up to 3 disconnects available depending on output power requirements
4	Audible Alarm	120 V, 30 mA (4 Watts), 103 dBA @ 1 m
5	Visual Alarm	120 V, 30 mA (4 Watts), Red Lens, NEMA 4X
6	Battery Backup Alarm	3 x AA Batteries, audible alarm
7	Output Terminal Block	
8	Input Terminal Block	
9	Pressure Input	0-500 mbar (air)
10	Available Modules	Up to 8 modules available total including Alarm Module and Analog Module > 20 A/3-phase: 120-240 V/60 Hz, 20 FLA max. Fuse: 20 A, 250 V Slow Blow > 20 A/1-phase: 120-240 V/60 Hz, 20 FLA max. Fuse: 20 A, 250 V Slow Blow > 10 A/1-phase duplex: 120-240 V/60 Hz, 10 FLA max. Fuse: 10 A, 250 V Slow Blow, alarm output included > Alarm Module: 0-240 V (AC/DC), 1A Fuse: 1 A, 250 V, Slow Blow (not required when using 10 A Module) > Input Expansion Module: 4 Amplified Analog Inputs (0-5 V, 4-20 mA), 2 Analog Inputs, 5 Digital Inputs (5 V), 2 Air Pressure Sensors (0-500 mbar) > Communication Module: GPRS 3G/2G or Ethernet Available

Order Numbering: (for custom design consult RH2O®)



Example Models

- CP1-B11-3G = Standard Simplex 120 V/1-Phase, 20 A with 3G Communication
- CP2-B12-3G = Standard Duplex 120 V/1-Phase, 20 A with 3G Communication
- CP8-B24-C12-EN-IM = Custom 8 output panel (4 x 240 V/1-Phase 20 A Modules, 2 x 120 V/10 A Duplex Modules) with Ethernet and Input Expansion Module