

PC300 Process Controller

Process control meter and industrial control system



- Digital LCD screen
- Easy to use 4 button interface with user selectable sensor types
- 4-20mA analog output for recorders or displays
- 2 independent output relays with parallel open collector signal lines
- Water resistant enclosure

Specifications

Power: 90-240 AC or 12VDC

60mA DC normal, 150mA maximum

120uA average during sleep mode

Enclosure: 12cm W x 20cm H x 7.5cm D, NEMA 4X

Sensor Reading: 5 digits + decimal point

Input Resolution: .005mA or 1.2mV

Relay Contacts: Voltage: 30VDC

Current: 5A/30VDC

Max Capacity: 150W

Relay 1, 2nd Output: NPN to Ground, 1.0Kohm pull-up resistor

Relay 2, 2nd Output: NPN to Ground, Open-collector

Analog Output: 4mA minimum, 20mA maximum

Resolution: .005mA

Sensor Types/units: Water Level (Feet/Meters), Temperature

(°F/°C), pH (no units), Dissolved Oxygen (%), Turbidity

(NTU/ppm), Conductivity (µS), Wind Speed (MPH/KPH),

Wind Direction (°), Soil Moisture (%), Custom Sensor (any of

the above, mA, mV or custom programmed units)

Sensor Data Range: 0.000 to 60,000 (60000 in the display with 4 different decimal point positions)

Relay Time Ranges: 1-60,000 seconds (16.7 hours)

Resolution: 1 second increments

Sleep Time Range: 1-240 minutes (4 hours)

Resolution: 1 minute increments

Description

The Process Controller is reliable, accurate and suitable for measuring all types of 2 and 3 wire sensors with 4-20mA outputs including all of Global Water's sensors. The controller comes pre-programmed for use with 10 different sensors and 14 engineering units. In addition, the PC300 can be programmed at the factory to monitor any type of custom sensor in any units selected by the customer. The controller can also monitor sensors with voltage outputs if specified at the time of purchase.

Display and Outputs

The LCD display shows the type of sensor that is being monitored, the data reading and the engineering units. The display also indicates if either relay has been triggered since last reset, which relay was triggered and whether the maximum or minimum limit was exceeded.

Two separate relays are provided for controlling all types of external devices including samplers, alarms, mixers, pumps, control valves, floodgates and telemetry systems. Each relay is independently programmable to trigger on maximum and/or minimum levels in one of three different modes.

Installation

The Process Controller has many applications and therefore many installation solutions. The case is rugged and can be easily installed in a variety of conditions. Four screw holes are provided for securing the case to a wall, panel or different types of mounting hardware. While the case is watertight and will resist moisture, Global Water does not recommend that the PC300 be mounted outdoors without providing protection from continuous exposure to the weather.

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Options and Accessories

PC300 Process Controller

Environmental Enclosure option

Includes battery and battery charger

PC300-DS

Process Controller W/Internal Datalogging Option

Includes software and cables.



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