

PC320 Process Controller

Process control meter and industrial control system



Description

The PC320 Process Controller is reliable, accurate and suitable for measuring any type of 2 and 3 wire sensors with 4-20 mA, 0-1 volt and 0-5 volt outputs. It comes pre-programmed for use with 12 different common sensor types and appropriate selectable engineering units. In addition, the PC320 can be programmed by the user to monitor any type of custom sensor in any user defined units. Custom user defined engineering units are also programmable for all standard sensor types. Both 2-point and 3-point calibration methods are supported and an additional 3rd order polynomial equation can be applied to the sensor data to correct for non-linearities in sensor output. The polynomial mode is useful for calculating other parameters based on a non-linear sensor reading such as calculating water flow rate from water level.

The process controller's LCD display shows what type of sensor is being monitored, the data reading averaged over a user programmable time period, and the engineering units selected. The display also shows the current On or Off state for each of the 4 relays. Two other display modes are available. One shows the maximum and minimum sensor readings since last reset. Another mode displays the current state of any of the 4 relays in real time, the sensor reading that caused the last triggering event, and the On or Off time remaining in the control cycle. The LCD display can be backlit for easy viewing at all times and offers a power saving mode for limiting current drain in battery powered applications.

- Digital LCD screen
- Easy to use interface with user selectable sensor types
- 4-20mA analog output for recorders or displays
- Relay outputs for alarms, sampling, or datalogging
- Water resistant enclosure

Specifications

Voltage: 12VDC or 18-24VDC Input, +/-10%
Supply Current: 13mA + Sensor Current + Backlight + 4-20mA Output, 150mA Maximum Total Current
Backlight Current: 23mA when on
Internal Fuse: 315mA
Power Adapter: 18VDC Universal Power Supply, 90-220VAC Input AC Version only
Sensor Types/Units: Level (Feet, Inches, Meters, Centimeters, Custom), Temperature (°F, °C, Custom), pH (ph, Custom), Conductivity (uS, mS, Custom), Dissolved Oxygen (% , mbar, ppm, mg/L, Custom), ORP (mV, Custom), Turbidity (NTU, Custom), Wind Speed (MPH, KPH, Ft/Sec, M/Sec, Custom), Wind Direction (°, Custom), Humidity (% , Custom), Solar Radiation (W/M², Custom), Pressure (mbar, hPa, inHg, PSI, Pa, Custom), Custom (Custom)
Output Relays: 4 Independent SPDT Relays
Contact Rating: 8A @ 250VAC, 5A @ 30VDC Resistive
Analog Sensor Input: 2-Wire or 3-wire, 4-20mA, 0-5VDC, 0-1VDC
Analog Output: 4-20mA Scalable
Display/Keypad: 16 Character x 2 Line Backlit LCD, 8-Button Tactile Keypad
Sensor Resolution: 7 Digit Maximum, Auto-Floating point
Accuracy: Sensor Accuracy + 0.1% + 1 Digit
Enclosure: NEMA 4
Dimensions (WxHxD): 7.1x5.1x1.4 in (180x130x35 cm)
Weight: 1 lb (454 g)

Options and Accessories

PC320-AC Process Controller

Process controller with AC power. Sensor not included.

PC320-DC Process Controller

Process controller with DC power. Sensor not included.

PC320-AC-D Process Controller

Process controller with AC power and USB data logger. Sensor not included.

PC320-DC-D Process Controller

Process controller with DC power and USB data logger. Sensor not included.

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