

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 preprogrammed 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.

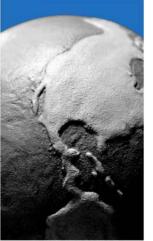
Contact
Global Water
for all your
instrumentation
needs:
Water Level

Water Flow Water Samplers

Water Quality

Weather

Remote Monitoring Control





a **xylem** brand

- 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 r. Sensor not included.

In the U.S. call toll free at 1-800-876-1172 International: 1-979-690-5560 Fax: 1-979-690-0440 Email: globalw@globalw.com Visit our online catalog at: www.globalw.com Our Address: 11390 Amalgam Way Gold River, CA 95670