

The WPC-9001 is an electronic control module designed to automate the speed control of Williams pneumatically operated metering pumps. The WPC-9001 interfaces with our pumps through the use of an electro-pneumatic solenoid valve. The solenoid valve is used in place of our Oscillamatic® controllers, where the speed is adjusted manually.

Superior Pump Control

The WPC-9001 is designed to receive a 4-20 mA input signal and generate a 24 VDC square wave output pulse. The pulses alternately energize and de-energize a 3-way solenoid valve, which in turn provides the air to operate the pump.



WPC-9001-GP (Nema 4x)
For General Purpose Locations



WPC-9001-XP (Nema 7)
For Hazardous Locations

FEATURES

- Annunciator light to indicate operation
- Displays strokes per minute
- Displays total strokes
- Selector for dual pump system
- Annunciator light for pump selection
- Automatic switching for flow condition*
- Pump selection reset button*
- Selector/Annunciator for auto/manual mode
- Auto to manual switching for loss of signal**
- Manual mode stroke rate adjustment**
- Weatherproof Enclosures (Nema 4x) for GP
- Explosion Proof (Nema 7) Weatherproof Enclosures available for XP

* This feature applies to a two pump system. A flow switch is necessary to provide the no flow signal.

** During a manual mode the solenoid valve is operated by a repeat cycle timer. The rate can be adjusted through a potentiometer.

FLOW ELEMENT & TRANSMITTER

INPUT POWER*

- Standard 115 VAC, 48 watts (maximum)
- Standard 230 VAC, 48 watts (maximum)
- Optional 24 VDC

ALARM OUTPUT SIGNALS

- Loss of signal - N/O, N/C dry contact
- No flow condition - N/O, N/C dry contact
With adjustable delay from 0 to 5 minutes
- Manual control mode - N/O, N/C dry contact

INPUT SIGNAL

- 4-20 mA

OUTPUT POWER

- 24 VDC, 0.5 A square wave pulse

SHIPPING WEIGHT:

- GP (Nema 4x) 11 lbs
- XP (Nema 7) 70 lbs

* Specify power by adding the voltage to the base part number.

SIGNAL & POWER ELECTRICAL CONNECTION

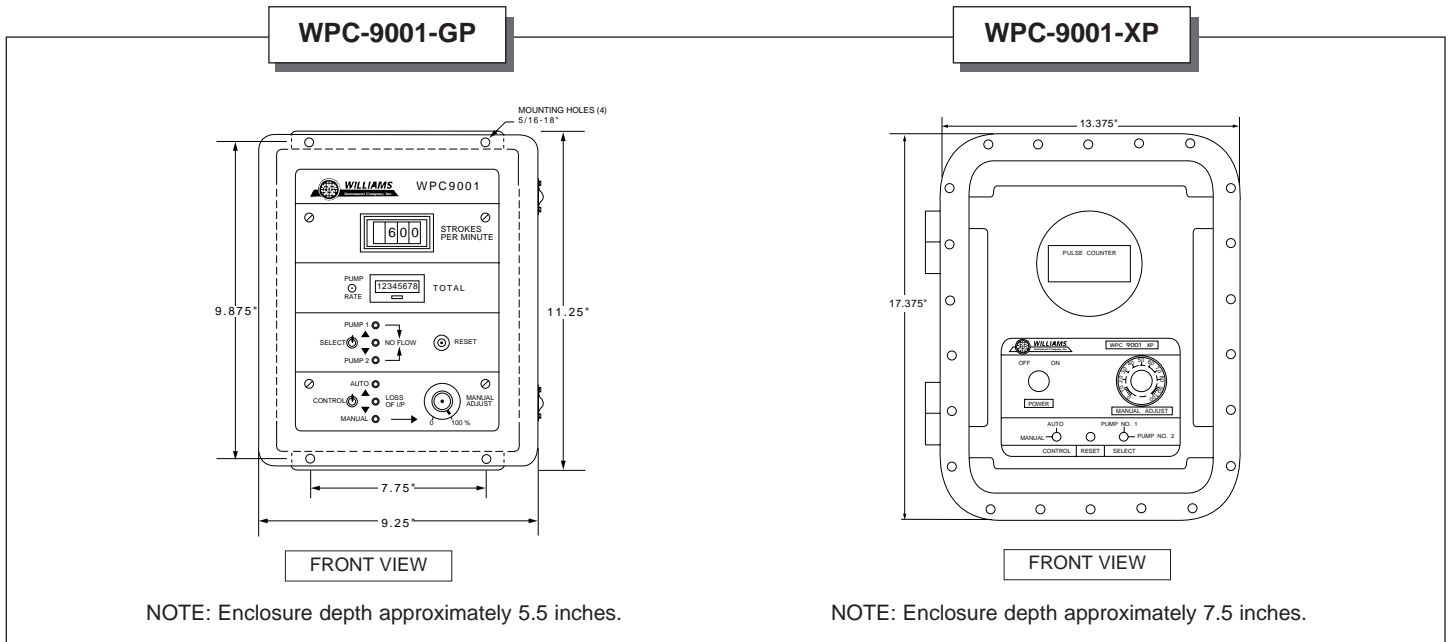
- 1/2 inch NPT (F)
- XP classification: N.E.C., Class 1, Div 1 & 2, Group C&D
- GP classification: Nema 4x
- Temperature Capabilities: 0° to 140°F (-18° to 60°C)

OPERATION

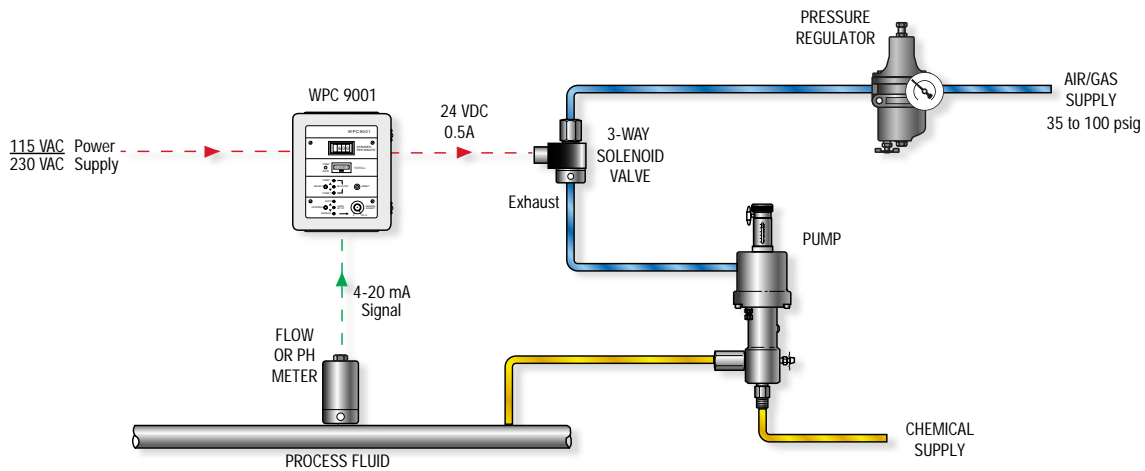
- Auto Mode - The output is 0 to 45 strokes per minute in proportion to the 4-20 mA input. The rate is field adjustable.
- Manual Mode - Field adjustable from 0 to 45 strokes per minute.
- Pump Switching Mode - With a two pump system using the optional flow switch the unit selects the standby pump when no flow signal is transmitted.
- Auto/Manual Switching Mode - With the loss of signal (signal drops below 3.5 mA for more than one minute) the unit automatically switches to the manual mode.



MOUNTING DIMENSIONS



APPLICATIONS



PART NUMBER FOR ORDERING

- WPC-9001-GP-115 (Std. 115 VAC POWER)
- WPC-9001-GP-230 (Std. 230 VAC POWER)
- WPC-9001-GP-024 (Opt. 24 VDC POWER)

- WPC-9001-XP-115 (Std. 115 VAC POWER)
- WPC-9001-XP-230 (Std. 230 VAC POWER)
- WPC-9001-XP-024 (Opt. 24 VDC POWER)

