

INNOVEC

CONTROLS PTY LTD

INNOVEC VP100D: VALVE POSITIONER



The **VP100 Valve Positioner** is a 120/240VAC powered auto/manual electronic valve positioner which operates within the motor feedback circuit. It accepts an input of 4-20mA, feedback signal of 100 to 10,000 Ohms and generates 2 independent relay contacts (ramp up/ramp down) and drives a 2 digit LED display showing valve position in percent open. The instrument operates in auto mode where it tracks the input signal or in manual mode where the actuator can be driven to any desired position.

FEATURES

- Auto/manual control
- Manual ramp up and ramp down
- 115 or 240VAC 47-63 Hz supply
- High contrast 10mm LED display
- Low cost - High performance
- Din rail mount enclosure
- Isolated 4-20mA retransmission
- Applications include the control of actuators in critical loops

The VP100 is an electronic motor positioner which operates within the motor feedback circuit. It accepts an input of 4-20mA and a motor position feedback signal from a three wire potentiometer generates 2 independent relay contact outputs and displays the motor or valve position in % (percent) open.

The VP100 incorporates auto/manual transfer by front push button. In manual mode, the user is able to drive the servo motor to any desired position with the ramp up or ramp down push button, ensuring the user always has control of the motorised valve or gate position in the event of loop failure.

TECHNICAL SPECIFICATIONS

Input

- The instrument accepts an input signal of 0-20mA or 4-20mA with 100 Ohms input impedance and a feedback signal of 100 to 10,000 Ohms from a three (3) wire potentiometer or 4-20mA current loop.

Output Relays

- The instrument has two output relays for motor actuator control with a contact rating of 5 amps inductive at 240VAC with an RC filter for spark suppression.

Analogue Output

- 4-20mA output into 750 Ohms. Optional isolated output.

Display

- A two (2) digit high contrast light emitting diode (LED) with a digit height of 10mm, a wide viewing angle and a viewing distance of 5 metres.

Environmental

- 0-70 degrees Celsius.
- 0-90% rh non-condensing.

Connection Details

Din rail mount instrument with front mounted 30 way terminal strip	
Terminal 1: Feedback pot left	Terminal 16: Motor one (forward)
Terminal 3: Feedback pot wiper	Terminal 17: Motor common
Terminal 5: Feedback pot right	Terminal 18: Motor common
Terminal 7: mA input positive (+)	Terminal 19: Motor two (reverse)
Terminal 9: mA input negative (-)	Terminal 27: VAC active supply
Terminal 13: mA output positive (+)	Terminal 29: VAC neutral supply
Terminal 15: mA output negative (-)	Terminal 30: VAC neutral supply

Instrument Power Supply

- 120/240VAC 47-63 Hz selectable at the terminal strip.

Weight

- 400 grams.

Mounting Details

- **Panel mounting:** Impact resistant panel mounting plastic enclosure of case dimensions 96mm wide by 48mm high by 148mm deep with a panel cut out of 91mm wide by 43mm high.
- **Din rail mounting:** Impact resistant din rail mounting plastic enclosure of case dimensions 100mm wide by 75mm high by 110mm deep.

Ordering Information

- Model/input signal/display units/power supply.
- Sample number:
- VP100/4-20mA/0-99/VAC/420RT
- All units shipped factory calibrated to 0-99.