ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

PXD-72

PXD-Series Universal PID Controller



RoHS Compliant

MAKE IN INDIA

Overview

A PID controller is an instrument used in industrial control applications to regulate temperature, flow, pressure, speed, and other process variables. PID (Proportional–Integral–Derivative) controllers use a closed-loop feedback algorithm to maintain stable and accurate control, making them one of the most reliable solutions for process regulation.

The ASHE PXD-72 is a fully programmable, microcontroller-based universal Digital Process Indicator with selectable PID or ON/OFF control action. It is designed in a compact, rugged, and reliable form factor. Three front-panel keys allow easy configuration of parameters, while a bright four-digit red LED display shows both the process value and set value. The display supports scaling from –999 to +9999 units, and the analog PID control output is visualized through an integrated bar-graph display.

The instrument accepts all standard industrial input signals such as 4–20 mA DC, DC voltage, and temperature sensors including RTD Pt-100 and thermocouples (J, K, R, S). It also provides RS485 communication on Modbus RTU with four selectable baud rates.

The PXD-72 offers PID control on Relay 1, while Relay 2 supports ON/OFF control. Two independent relay set points can be configured for heating or cooling operation with individual hysteresis settings through the keypad. The instrument operates on a universal 90–270 VAC power supply and is supplied in panel-mount execution.

The ASHE PXD-72 PID Controller ensures high reliability through accurate process measurement and stable control performance. It is engineered to withstand shocks, dust, wide ambient temperatures, humidity, and corrosive industrial environments. The use of high-quality components throughout ensures consistent functionality and a long service life.

This product is backed by a full two-year warranty, covering all manufacturing defects and workmanship issues under normal operating conditions.

Specifications

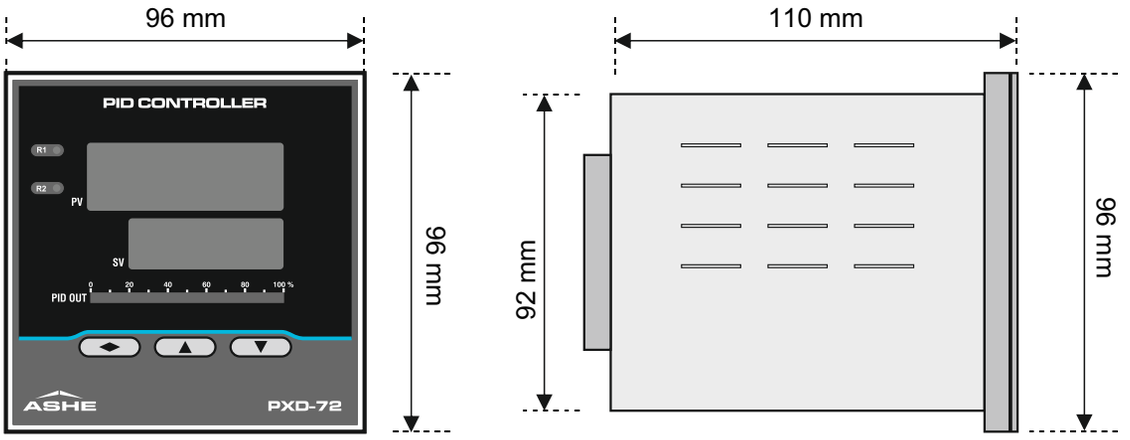
Model	ASHE PXD-72
Type	Universal PID Controller.
Input Signals	4 to 20 mA DC, DC Voltage, RTD Pt-100, Thermocouples-Types J,K,R,S (Universal Input).
Output Signal	4 to 20 mA DC.
Load Driving Capacity	600 ohm Retransmission / PID Control Output
Displays	4 digit 0.5" and 0.39" seven segment displays and Bargraph display.
Scale Range	-999 to +9999.
Linearity	± 0.1% .
Calibration	Configurable from front Keypad.
Control Output	Two Relay change over contacts.
Contact Rating	10 Ampere @ 230 VAC (resistive loads).
Control Logic	PID control action with Auto tune or Manual tune option and ON-OFF control Action with Heating and Cooling option (Selectable).
Accuracy	±0.1 % of FSD.
Communication	RS485 on Modbus RTU Protocol.
Auxiliary Output	24 VDC at 100mA for Aux Transmitter Power (Optional) .
Power Supply	90 to 270 VAC, 50 / 60 Hz.
Dimensions	96 x 96 x 110 mm [H x W x D].
Enclosure	Industrial Grade ABS.
Execution	Panel Mounting.
Weight	Approximately 0.5 Kg.
Operating Temperature	0 to 55^{0}C.

Features

- Universal Input selection options
- PID Tuning Auto or Manual selectable
- Two control Relay outputs
- 4 to 20 mA DC PID Control output signal
- Aux 24VDC Power output option
- High accuracy and linearity
- Fully configurable
- Bargraph display indication for analog output
- RS485 on Modbus RTU communication option
- Baud rate selection options available
- Configuration settings on front panel keyboard
- Ambient temperature indication on display
- Panel / Field / Hazardous-area installation in IP66 execution
- Two-year Performance Warranty
- Proven track record of successful site installations

www.ashecontrols.com • Phone : (022) 2405 1561, 2405 5791, 2405 5543 • E-mail : sales@ashecontrols.com

Dimensional Diagram



FRONT VIEW SIDE VIEW

How To Order

	UNIVERSAL PID CONTROLLER	**PXD-7**					
	Configuration and add-on options						
1	**CONTROL RELAYS**						
▸	No Relay (only PID analog output)	0					
▸	Two Relay	2					
2	**POWER SUPPLY**						
▸	AC Voltage 90 to 270 VAC, 50/60 Hz		A				
▸	DC Voltage 24 VDC		D				
3	**INPUT SIGNALS**						
▸	DC Current			L			
▸	DC Voltage			V			
▸	RTD Pt-100 (three-wire)			R			
▸	Thermocouple			T			
▸	DC Current/RTD Pt-100/Thermocouple			U			
4	**COMMUNICATION**						
▸	RS485 on Modbus RTU required				M		
▸	RS485 on Modbus RTU not required				N		
5	**RETRANSMISSION**						
▸	Retransmission required					R	
▸	Retransmission not required					N	
6	**AUX 24 VDC OUTPUT**						
▸	Aux 24 VDC @100 mA output required						Q
▸	Aux 24 VDC output not required						N

Our Other Products


FLOW TOTALIZER


SIGNAL ISOLATORS & TRANSDUCERS


TEMPERATURE SCANNER


FLAMEPROOF INSTRUMENTS


STATIC POWER SWITCHES

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Designed and Manufactured by :
ASHE CONTROLS PRIVATE LIMITED
6/317, 318 & 319, Jogani Industrial Complex, Near ATI, Sion-Trombay Road, Chunabhatti (East), Mumbai - 400 022, India.
Phone : (022) 2405 1561, 2405 5791, 2405 5543 • E-mail : sales@ashecontrols.com • Website: http://www.ashecontrols.com