ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

AK-62

AK-Series Universal PID Controller



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 control loop feedback mechanism to control process variables and are the most accurate and stable Controllers.

The ASHE AK-62 is a fully configurable micro-controller based universal Digital Process Indicator with PID control or ON/OFF control action. It is offered in a highly compact, rugged and reliable execution. The instrument has three keys on the front panel, with which the operator can set the parameters and configure the instrument. A four-digit red LED digital display is provided to indicate the process value and set value. The display can indicate any scale range between –999 to +9999 units.

The Indicators accept all industrial standard input signals, like 4 to 20 mA DC, DC Voltage, and Temperature sensors like RTD Pt-100, (3-wire) Thermocouples (type J,K,R,S). The instrument also provides RS485 communication signal on Modbus RTU with four baud rate selections (optional).

The AK-62 can provide PID control action for Relay1 with Auto or Manual tuning, while Relay2 has ON/OFF control action which may be configured for either Heating & Cooling setting with independent Hysteresis value through the Keypad on the front panel. The instrument operates on 90 to 270 VAC universal AC/DC power supply and is offered in Panel-mount execution.

The ASHE Universal AK-62 PID Controller offers a high degree of reliability owing to its inherent accuracy in process measurement and control, besides other characteristics like total immunity to shocks, dust, ambient temperatures, humidity and corrosive atmospheres. Further, the instruments are manufactured using selected high-grade components which guarantee their functional reliability and long operational life.

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

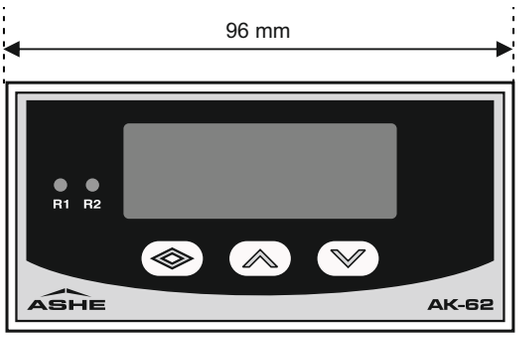
Specifications

Model	ASHE AK-62
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 PID
Load Driving Capacity	600 ohms
Displays	4 digit 0.5" seven segment displays
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 V DC at 80mA for Aux Transmitter Power (Optional)
Power Supply	90 to 270 VAC, 50/60 Hz
Dimensions	48 x 96 x 75 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

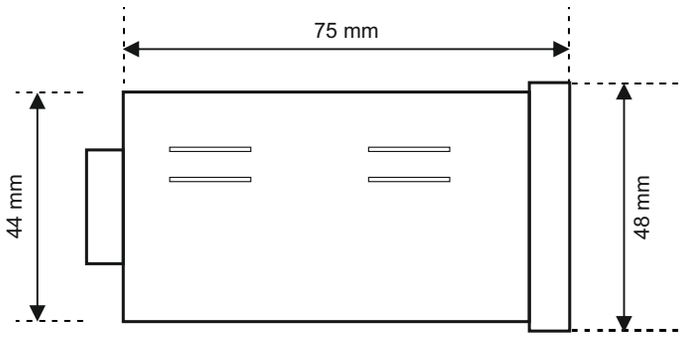
Features

- Universal Input selection options
- PID Tuning Auto or Manual selectable
- Two control Relay outputs for PID and On/Off control action
- 4 to 20 mA DC output signal (PID)
- Aux 24VDC Power output option
- High accuracy and linearity
- Fully configurable
- 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 options
- Two-year Performance Warranty
- Proven record of several thousand installations

Dimensional Diagram



FRONT VIEW



SIDE VIEW

How To Order

	UNIVERSAL PID CONTROLLER IN PANEL-MOUNT EXECUTION	**AK-6**						
	Configuration and add-on options							
1	**CONTROL RELAY**							
▸	No relay		0					
▸	Two relay		2					
2	**POWER SUPPLY**							
▸	AC Voltage			A				
▸	DC Voltage			D				
3	**INPUT SIGNAL**							
▸	DC Current (4 to 20 mA DC)				L			
▸	DC Voltage (to be specified)				V			
▸	RTD Pt-100				R			
▸	Thermocouple				T			
▸	4 to 20mA DC / RTD Pt-100 / TC				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 24VDC OUTPUT**							
▸	Aux 24 VDC Required							Q
▸	Aux 24 VDC Not Required							N

Our Other Products


FLOW TOTALIZER


SIGNAL ISOLATORS & TRANSDUCERS


TEMPERATURE SCANNER


FLAMEPROOF INSTRUMENTS


STATIC POWER SWITCHES

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