



DIGITAL INDICATOR

AK-60





SPECIFICATIONS

Model ASHEAK-60 (No Relay)

Microcontroller based analog process Type indication on Digital display with single/dual-

point control action.

Input Signals / Sensors 4 to 20 mA DC, AC/DC Voltage, AC/DC Current, Resistance, Strain-gauge, Frequency,

Proximity Switches and all temperature sensors like RTD Pt-100, Thermocouples type J,K,R,S,T,E,B, etc.

Display 4-digit, 0.5" seven-segment LED display.

Scale Range -999 to +9999. Calibration Configurable. Response time < 100 mS Linearity 0.1% of span.

Calibration facility By Membrane keypad on front panel.

Control output Single / Dual relay changeover contacts

(configurable).

10 Ampere @ 230 VAC (resistive loads). **Contact Rating**

Control Logic Alarm indication By LED on front panel. Non-volatile. Memory 0.1% of FSD. Accuracy

4 to 20 mADC [optional]. Retransmission

Load driving capacity 600 Ohms Polarity Auto-sensing.

Settings for Zero, Span, Decimal point. **Settings** 90 V to 270 VAC, 50 hz universal power supply. **Power Supply**

[Optionally 24 V DC].

Dimensions 48 x 96 x 75 mm

 $[W \times H \times D].$ Panel mounting. Industrial grade ABS.

Weight Approximately 0.5 Kgs. **Operating Temperature** 0 to 50 °C.

Execution

Enclosure

High-Low (Configurable).

Retransmission option.

External transmitter powering option

Polarity Auto-sensing

Selectable Decimal-point

Universal AC Power Supply

On-Off or PID control action options

Rugged, industrial grade ABS enclosure

High Noise immunity.

Panel / Field / Hazardous-area installation in IP65 execution

Proven record of several thousand installations

Lifetime warranty on design and workmanship

OVERVIEW

The ASHE Series AK is a range of fully configurable microcontroller based universal Digital process Indicator with and without control relay outputs, 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 as desired. Single or Dual four-digit LED display options are offered on the front panel. 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, AC/DC Voltage, AC/DC Current, Resistance, Strain-gauge, Frequency and all temperature sensors like RTD Pt-100, Thermocouples (type J,K,R,S,T,B.E.etc.), Proximity Switches, etc. The Indicator is available in several dimensions in panel-mount execution and operates on AC or DC power supply, as required. The instrument may be used in either two-wire or four-wire configuration and is calibrated as specified.

The instrument has Single or Dual Relays for control action, the set-points of which may be set from the front keyboard. Options include Dual display, multiple Relay outputs, analog retransmission signal, DIN rail mount, Weather-proof / flameproof executions, etc.

The Ashe AK range of Indicators offer a high degree of reliability owing to their inherent accuracy in process 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.

All ASHE range of instruments carry a lifetime warranty for design and workmanship.

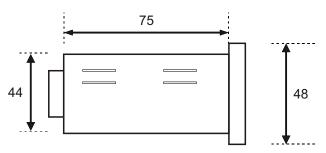
FEATURES

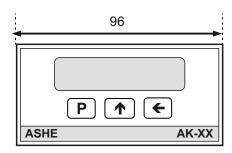
- Microcontroller based design.
- Low cost, high functionality
- Standard analog signals and Sensors.
- Low Input impedance negligible load on loop.
- High accuracy and linearity to input signal
- 4-digit seven-segment digital LED displays
- Single / Dual Relay change-over contacts
- Very low power consumption and heat dissipation Fully configurable

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DIMENSIONAL DIAGRAM





	48x96x75 mm, No Relays.	AK-60				
	Configuration and Add-on options w					
l	INPUT SIGNALS					
•	Universal input signal		U			
	Standard Input Signals offered (if specific input required)					
•	4 to 20 mA DC		L			
	DC Voltage, 0-10 V DC		D			
	RTD Pt-100 (three-wire)		R			
•	J type Thermocouple (0 to 750 OC)		J			
	K type Thermocouple (0 to 1200 OC)		K P			
•	R type Thermocouple (0 to 1800 OC) S type Thermocouple (0 to 1800 OC)		S			
	T type Thermocouple (-200 to +350 OC)		T			
	Type memocouple (-200 to 1000 00)		•			
	Optional Inputs available on request					
•	4 to 20 mA DC with aux 24 VDC @ 100 mA power output f	or Trans.	Q			
•	Resistance		Ē			
•	Frequency, Proximity Sensor.		F			
•	AC Voltage (to be specified)		Н			
•	AC Current (0 to 1 / 5 Ampere)		Α			
•	Other (to be specified).		Z			
2	POWER SUPPLY					
•	Universal AC Power Supply, 90 to 270 V AC, 50/60 Hz.			V		
	Optional Power Supply available on request					
•	24 V DC (±10%).			D		
•	Other (to be specified).			Z		
3	EXECUTION					
•	Panel mounting [48 x 96 mm]				В	
•	Field mounting in Weather-proof execution				W	
	(Polycarbonate enclosure, IP65 protection)					
•	Field mounting in Flame/Explosion-proof execution				X	
	(Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, I	IB)			_	
•	Other (to be specified)				Z	
4	RETRANSMISSION					
	Retransmission of 4 to 20 mA DC					R
•	Retransmission of 0 to 10 V DC					V
•	No Retransmission					0
	Other (to be specified)					Ζ

OUR OTHER PRODUCTS













PROCESS CONTROLLER

UNIVERSAL CONTROLLER FLOW TOTALIZER

TEMP. SCANNER

SIGNAL ISOLATORS & TRANSDUCERS

SMPS POWER SUPPLIES



ASHE CONTROLS PRIVATE LIMITED