

Loop Powered LCD Indicator With Control Outputs

PESO
CERTIFIED



OVERVIEW

The Model JM-43 field-mounted micro-controller based Loop Powered Indicator with control outputs is a compact, rugged, and reliable indicating instrument which is designed for accurate process measurement applications.

The instrument is designed for applications where the input signal needs to be retransmitted to a remote location and which can offer relay control in process industries where vibration, inclement atmosphere and corrosive environments prevail.

The Indicator accepts an industrial standard current input signal of 4 to 20 mA DC and displays the actual process value calibrated in the desired units, on a linear scale. The process value is displayed on a 4-Digit seven-segment LCD digital display module. The instrument is fully configurable and can be calibrated on any scale range from 0000 to 9999 units. Decimal Point setting is provided in the instrument. Operating ambient temperature is from 0 to 55°C. The field mounted unit has no potentiometers to adjust and all settings can be performed digitally using only the three membrane switches that are available on the front panel. The IP66 rating provides total immunity to corrosive atmospheres, humidity (including condensation) and dust. JM-43 needed external Power Supply 24 VDC to drive the potential free relay contacts.



Ex-d Ex-i
CERTIFIED CERTIFIED

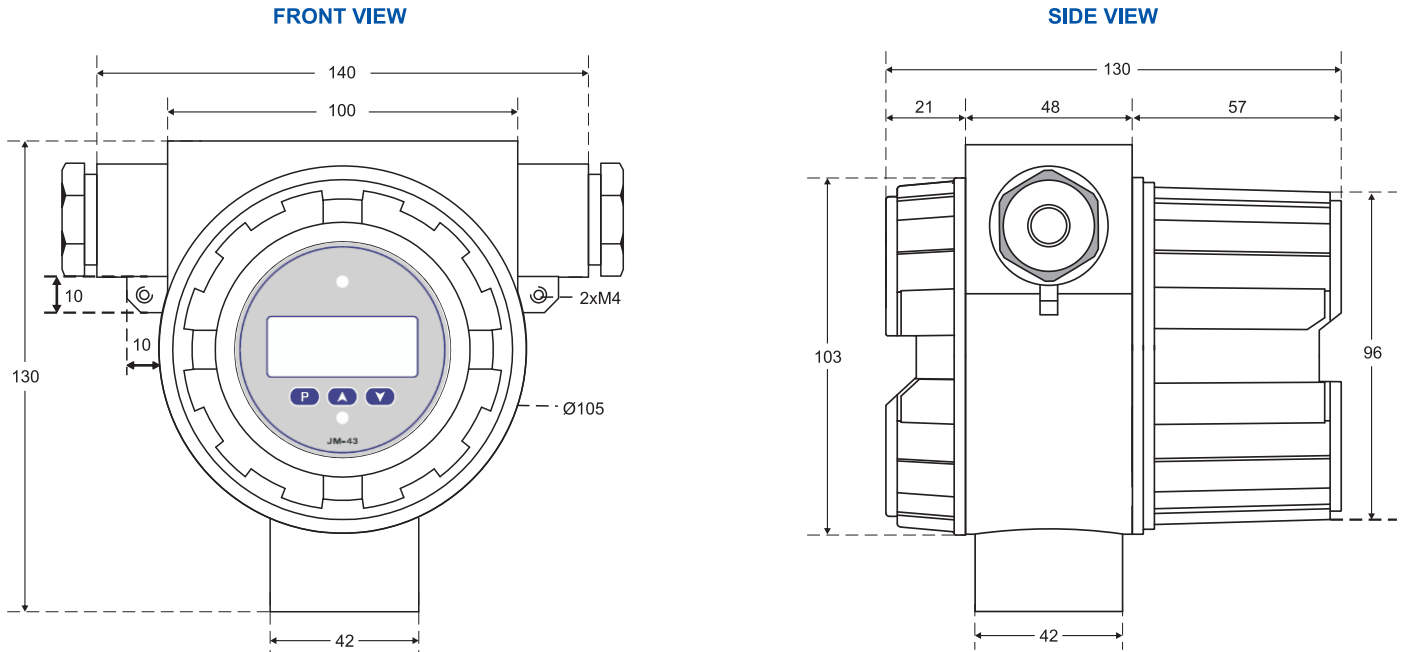
SPECIFICATIONS

Model	ASHE JM-43
Type	Digital Loop Powered Indicator with control outputs.
Input Signal	4 to 20 mA DC.
Linearity	± 0.1%.
Indication	4-digit LCD display.
Display Height	0.5" (LCD)
Forward Voltage Drop	5.1 Volts @ 20 mA.
Sensing Resistance	10.00 Ohms.
Control Output	Three Relay (Potential Free contact) (Alarm-1, Alarm-2, Fault)
Polarity	Auto-sensing.
Response Time	Typically 20 mSec.
Power Supply	24VDC (To drive Potential Free Contacts)
Calibration Range	Configurable from front keypad.
Dimensions	140 x 130 x 130 mm. [W x H x D].
Enclosure	Explosion-proof Aluminium Alloy LM6, suitable for gas groups IIA/IIB, certified for Ex-d applications.
Mounting Accessories	SS316 Mounting Kit comprising 2" pipe mounting bracket, U-Clamp, L-Bracket and Mounting Bolt (optional).
Weight	Approximately 1.1 Kgs.
Ingress Protection	IP66 execution
Operating Temperature	0 to 55°C.

FEATURES

- 24 VDC power supply operation (To drive potential free contacts)
- Standard 4 to 20 mA DC current loop powered operation
- Low Input impedance – negligible load on loop.
- High accuracy and linearity to input signal
- 4 - digit LCD display
- Very low power consumption and heat dissipation
- Low forward voltage drop
- PESO (CCOE) certified
- Auto-sensing polarity
- Selectable Decimal point
- 0.5" LCD display
- Front accessible Zero and Span calibration on membrane keypad
- Rugged, industrial grade Aluminum Alloy LM6 enclosure
- Compact and rugged execution
- Flame proof Ex-d certified
- Hazardous-area installation for IIA/IIB in IP66 execution
- Available in several dimensions
- Current limiting for I/O protection
- Proven record of several thousand installations

DIMENSIONAL DIAGRAM



How To ORDER

LOOP POWERED INDICATOR WITH CONTROL OUTPUTS

JM-43

Configuration and add-on options

1 CONTROL RELAY OUTPUTS

- ▶ No Relay (Simple Indicator)
- ▶ One Relay
- ▶ Two Relay
- ▶ Three Relay

0
1
2
3

2 EXECUTION

- ▶ Field mounting in Weatherproof execution (Polycarbonate enclosure, Ingress protection)
- ▶ Field mounting in Flame/Explosion-proof execution (Cast Aluminium Alloy enclosure, for Gas groups IIA, IIB)

W
X

OUR OTHER PRODUCTS



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



TEMPERATURE SCANNER



FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES



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