

Digital Indicator in Flameproof Execution (SS Enclosure)

**PESO**  
CERTIFIED



**OVERVIEW**

The ASHE JX-40 and JX-42 are fully configurable micro-controller based Digital process Indicator with and without control outputs, offered in a highly compact, flame-proof execution. The instrument accepts an analog current loop signal or process sensor inputs and displays the process value which can be calibrated to the desired operating range. A four-digit red LED digital display indicates the process value on a scale range between -999 to +9999 units.

The JX-42 provides two control Relay set-points, each of which may be configured for either High or Low setting with independent Hysteresis value, through the Membrane Keypad on the front panel.

The instrument operates either on 24 VDC or on universal AC power of 90 to 270 VAC, 50/60 Hz with transient protection of up to 300 VAC. The instrument can also provide analog retransmission signal of 4-20 mA DC, auxiliary transmitter power supply output of 24 V DC at 100mA and data communication on Modbus.

The process Indicating Controller Model JX-40 and JX-42 are therefore ideal instruments for process measurement applications because of their versatility and inherent accuracy in process measurement and control, besides other superior characteristics such as total immunity to shocks, dust, ambient temperatures, and humidity.

They are offered in a IP66 certified enclosure in wall/pipe-mount execution. The enclosure has provision for three cable entries.



**Ex-d**  
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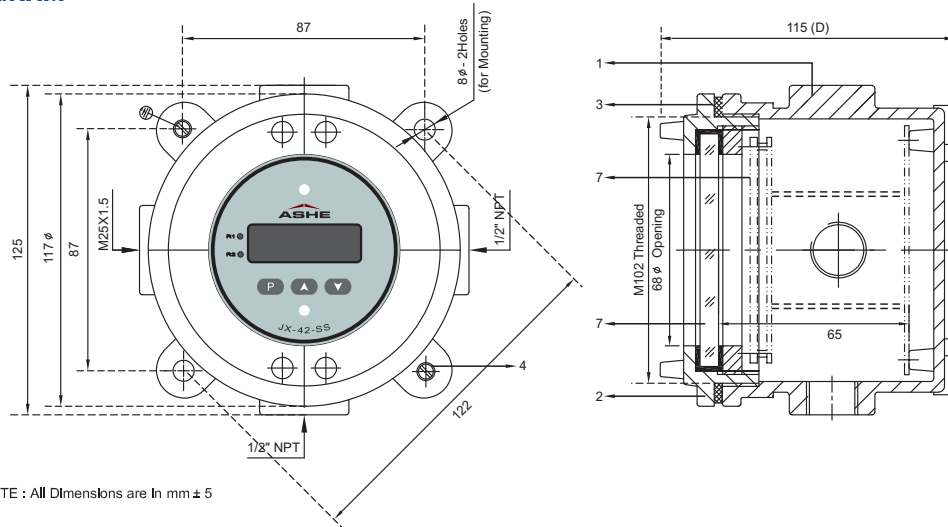
**SPECIFICATIONS**

<b>Model</b>	ASHE JX-40 & JX-42-SS
<b>Type</b>	Microcontroller based Digital Indicator Controller in Flame-proof Execution.
<b>Input Signal</b>	4 to 20 mA DC (or as required).
<b>Indications</b>	Four digit Red LED seven segment display.
<b>Scale Range</b>	-999 to +9999 (fully configurable).
<b>Calibration</b>	Configurable from front keypad.
<b>Control Output</b>	Two Relay change-over contacts (in JX-42).
<b>Memory</b>	Non-Volatile (on EEPROM).
<b>Response Time</b>	Typically 75 mSec.
<b>Retransmission</b>	4 to 20 mA DC (optional).
<b>Power Supply</b>	90 to 270 VAC, 50/60 Hz or 24 VDC.
<b>Data Communication</b>	RS 485 on Modbus RTU (optional)
<b>Auxillary Power Supply Out</b>	24 VDC at 100 mA for Aux Transmitter Power (optional).
<b>Contact Rating</b>	10 Ampere @ 230 VAC (Resistive Loads).
<b>Settings</b>	By Membrane Switchpad on front panel.
<b>Features</b>	Settings for Scale Calibration, Decimal Position, No. of active Relays, Control Logic, Set points, Hysteresis etc.
<b>Accuracy</b>	+ 0.1%
<b>Enclosure</b>	Flame-proof Ex-d and PESO, Stainless Steel SS316 Die-cast-chamber enclosure suitable for installation in Hazardous Area for Gas Groups IIA/IIB & IIC, T6, Zones 1 & 2 areas.
<b>Ingress Protection Execution</b>	IP65 certified as per IS/IEC 60529:2001. Field/Wall mounting.
<b>Weight</b>	Approximately 3.5 Kgs.
<b>Dimensions</b>	125 x 125 x 115 mm [H x W x D].
<b>Operating Temperature</b>	0 to 55°C.

**FEATURES**

- Micro-controller based design
- All standard Analog Inputs and Sensors
- Four-digit LED Displays
- Up to two Control Relay outputs
- Retransmission of 4 to 20 mA DC signal (optional)
- Auxillary Power Supply for external Transducer option
- Data Communication on RS 485 Modbus RTU (optional)
- Polarity Auto-sensing
- MOC SS316 enclosure
- Selectable Decimal point
- Front accessible Zero and Span calibration by membrane keypad
- High accuracy and linearity to input signal
- Operation by soft keys on front panel
- 90 to 270 V AC, 50/60 Hz Power Supply (optionally 24 VDC)
- IP65 Flameproof execution industrial design
- Proven record of several thousand installations

**DIMENSIONAL DIAGRAM**



**HOW TO ORDER**

DIGITAL INDICATOR CONTROLLER IN FLAMEPROOF EXECUTION (SS ENCLOSURE)	JX-4							
Configuration and add-on options								
<b>1 CONTROL RELAY OUTPUTS</b>								
▶ No Relay (Simple Indicator)			0					
▶ Two Relay			2					
<b>2 EXECUTION</b>								
▶ Field mounting in Weather-proof execution (Polycarbonate enclosure, Ingress protection)						W		
▶ Field mounting in Flame/Explosion-proof Ex-d execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)						X		
▶ Field mounting in Flame/Explosion-proof Ex-d execution (Stainless steel SS316 enclosure, for Gas groups IIA, IIB, IIC)						S		
<b>3 INPUT SIGNALS</b>								
▶ 4 to 20 mA DC						L		
▶ RTD Pt-100 (three-wire)						R		
▶ Modbus RTU						B		
<b>4 POWER SUPPLY</b>								
▶ 90 to 270 V AC, 50/60 Hz.							A	
▶ 24 V DC (± 10%)							D	
<b>5 RETRANSMISSION</b>								
▶ 4 to 20 mA DC with aux 24 VDC @ 100 mA Power for Transmitter								Q
▶ 4 to 20 mA DC output not required								N
<b>6 DATA COMMUNICATION</b>								
▶ RS 485 on Modbus RTU								M
▶ Data Communication not required								N

**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