

Digital Indicator Controller in Weatherproof Execution



OVERVIEW

The ASHE JX-40W and JX-42W are fully configurable micro-controller based Digital process Indicator with and without control outputs, offered in a highly compact, weatherproof 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-42W 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, 50Hz 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-40W and JX-42W 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.



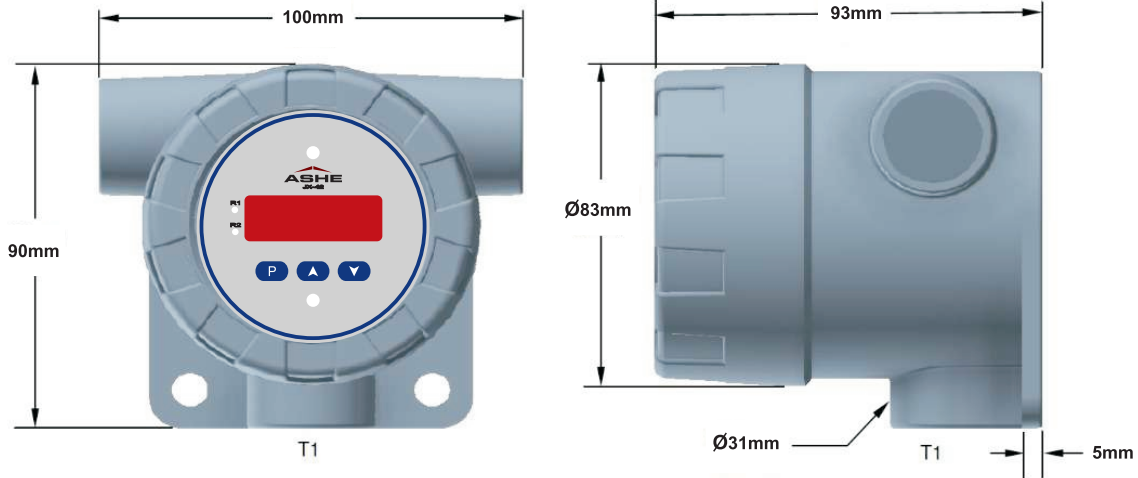
SPECIFICATIONS

Model	ASHE JX-42W
Type	Digital Indicator Controller in Weatherproof execution.
Input Signal	4 to 20 mA DC, 0 to 10 VDC, RTD Pt 100, Thermocouple.
System	Two wire / Four wire (to be specified)
Indication	Four-digit red LED seven-segment display.
Scale Range	-999 to +9999.
Calibration	Configurable from front keypad.
Control Output	Two Relay change-over contacts
Accuracy	> ± 0.1%.
Response Time	Typically 75 mSec.
Retransmission	4 to 20 mA DC (optional).
Power Supply	90 to 270 V AC, 50/60 Hz. OR 24 VDC (± 10%)
Auxillary Power Supply Out	24 V DC at 100mA for Aux Transmitter Power (Optional)
Enclosure	Industrial grade Polycarbonate with safety glass window
Ingress Protection	IP66 execution.
Dimensions	100 x 90 x 93 mm [W x H x D].
Operating Temperature	0 to 55°C
Weight	0.8 Kg.
Cable Entries	Three (1/2" NPT)
Execution	Wall/Pipe mounting

FEATURES

- Micro-controller based design
- All standard Analog Inputs and Sensors
- Control action, Retransmission and Data Communication (Modbus) options
- Four-digit LED Displays
- Up to two Control Relay outputs
- Retransmission of 4 to 20 mA DC signal
- Auxillary Power Supply for external Transducer option
- Polarity Auto-sensing
- 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. OR 24 VDC (± 10%)
- IP66 Weatherproof execution industrial design
- Proven record of several thousand installations

DIMENSIONAL DIAGRAM



HOW TO ORDER

DIGITAL INDICATOR CONTROLLER IN WEATHERPROOF EXECUTION	JX-4						
CONFIGURATION AND ADD-ON OPTIONS							
1 CONTROL RELAY OUTPUTS							
▶ No Relay (Simple Indicator)						0	
▶ Two Relay						2	
2 INPUT SIGNALS							
▶ 4 to 20 mA DC					L		
▶ RTD Pt-100 (three-wire)					R		
▶ J type Thermocouple (0 to 750 °C)					J		
▶ K type Thermocouple (0 to 1200 °C)					K		
▶ R type Thermocouple (0 to 1600 °C)					P		
▶ S type Thermocouple (0 to 1800 °C)					S		
3 POWER SUPPLY							
▶ Universal AC Power Supply 90 to 270 V AC, 50/60 Hz.						A	
▶ 24 V DC (± 10%)						D	
4 RE-TRANSMISSION							
▶ Re-transmission of 4 to 20 mA DC							R
▶ No Re-transmission							O
5 EXECUTION							
▶ Field mounting in Weather-proof execution (Polycarbonate enclosure, IP66 protection)							W
▶ Field mounting in Flame/Explosion-proof execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)							X
▶ Field mounting in Flame/Explosion-proof execution (Stainless steel SS316 enclosure, for Gas groups IIA, IIB, IIC)							Z

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Designed and Manufactured By :

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