

**PESO**  
CERTIFIED



## JM-408 Loop Powered LCD & LED Indicators

### OVERVIEW

The ASHE Model JM-408 Digital process Indicator is a compact, rugged and reliable indicating instrument which is specifically designed for accurate process measurement applications.

The microcontroller based 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, or a 4 digit LED display module. There is no necessity of any external Power Supply.

The instrument can be calibrated on any scale range from -999 to +9999 units.

The Ashe JM-408 Indicator has an easy setup procedure and inherent accuracy in process measurement, besides other superior characteristics like immunity to Shocks, Dust, Ambient temperatures, Humidity and Corrosive atmospheres. It's main advantage is that it is completely current loop-driven, eliminating the requirement of any external power supply source and associated cabling.

The instrument is manufactured using selected high-grade components which guarantee it's reliability and long operational life.

### SPECIFICATIONS

<b>Model</b>	ASHE JM-408.
<b>Type</b>	Microcontroller based Intrinsically Safe Digital Loop Powered Indicator.
<b>Principle</b>	Signal amplification and powering.
<b>Input Signal</b>	4 to 20 mA DC.
<b>Linearity</b>	± 0.1%.
<b>Calibration facility</b>	Zero and Span settings [external].
<b>Accuracy</b>	± 0.1%.
<b>Indication</b>	4-digit LCD display or LED display.
<b>Display height</b>	0.5" (LCD), 0.4" (LED)
<b>Forward voltage drop</b>	5.5 Volts @ 20 mA.
<b>Sensing resistance</b>	6.00 Ohms.
<b>Polarity</b>	Auto-sensing.
<b>Settings</b>	Zero, Span, Decimal point.
<b>Response Time</b>	Typically 75 mSec.
<b>Power Supply</b>	Nil (Loop powered).
<b>Calibration Range</b>	Configurable.
<b>Dimensions</b>	140 x 130 x 130 mm. [H x W x D].
<b>Execution</b>	Hazardous area installation.
<b>Enclosure</b>	IP66, Explosion-proof Aluminium Alloy LM6, suitable for gas groups IIA/IIB, certified for Ex-d applications.
<b>Mounting Accessories</b>	SS316 Mounting Kit comprising 2" pipe mounting bracket, U-Clamp, L-Bracket and Mounting Bolt (optional).
<b>Weight</b>	Approximately 1.1 Kgs.
<b>Operating Temperature</b>	0 to 50°C.
<b>Ingress Protection</b>	IP66

### FEATURES

- No external power supply required.
- 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 displays for LCD / LED display
- Very low power consumption and heat dissipation
- Low forward voltage drop
- PESO (CCOE) certified
- Intrinsically Safe Exi certified
- Auto-sensing polarity
- Selectable Decimal point
- 0.5" LCD display / 0.4" LED display
- Front accessible Zero and Span calibration on membrane keypad
- Rugged, industrial grade Aluminium 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
- Lifetime warranty on design and workmanship