Indicator (Model 408-21N)



Masibus' large digit display Model 408-2IN accepts universal process inputs. From these inputs the display can be scaled to remotely read in engineering units. Unregulated transmitter power supply is provided as standard on AC supply models.

For industrial applications demanding large displays while subjected to outdoor elements, high ambient light areas, Masibus offers series of Large Display Indicators in various sizes, where the LED display is visible from a long distance.

Model 408-2IN is micro-controller based design which accepts major industry standard inputs like RTD, thermocouples, mA, V, etc.

Model 408-2IN large digit displays are your flexible solution when a display needs to be viewed over distances as long as 80 feet (25 m). A rule of thumb is that viewing distance in feet is 40 times the digit height in inches, or in metric terms, the viewing distance in meters is digit height in millimeters divided by 2.

Depending on the selected digit size and mounting location, a Model 408-2IN display with normal brightness LEDs can be read across an entire plant floor, keeping the workforce informed of important process values at their work areas, eliminating the need to view from a small computer screen or local control panel.

Model 408-2IN displays are complete functional units, with all the necessary signal conditioning, power supply and display circuitry. Just apply power 230 VAC, connect your input signal, and display your reading. This model is packaged in MS power coated enclosure of size $192(W) \times 96(H) \times 70(D)$ in mm which makes it unit rugged & reliable.

Features

- Microprocessor
 based large display
 indicator
- High accuracy
- 8 selectable input types
- 4 digit LED display of 45mm (1.8") high
- Built-in Transmitter Power Supply
- 192 x 96mm enclosure
- Excellent longterm stability
- Easy configuration from front keys
- Digital calibration

408 - 2 IN

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Measured Input Signal

Number of Inputs Input Type, Measurement Range & accuracy Sampling Period Burn out detection

Burn out current Measuring current (RTD) Input Impedance Allowable lead-wire resistance

Allowable Input Voltage

Noise Rejection Ratio Common Mode: Normal Mode: Reference junction compensation error Applicable standard 24V DC Loop Power Supply for sensor **Display Unit Specification** Process Value display Display update rate **Construction/Installation/Wiiring** Enclosure Body construction Case color

Weight Dimensions Mounting Panel Cut-out Wiring Standard Accessories **Power supply/Isolation** Power supply

Power consumption

Isolation Specifications

Measured Input terminal 24V DC Supply for Transmitter Power supply terminal

Ground terminal

Environmental Conditions

Normal Operating conditions Ambient Temperature Ambient humidity Warm up time As per table 1 250 ms Available with TC, 1 to 5VDC, 4 to 20mA 0.5 μ A 0.1 mA TC /mV / V: 1M 15 / wire or less Effect from allowable lead wire resistance: 0.66°C / 10 or less TC / RTD: ±10V DC DC voltage: ±20V DC

408-2IN

> 120 dB (50 Hz) > 45 dB (50 Hz) ± 1.5 °C (20 to 45°C) ITS-90 or IPTS - 68 24 VDC ±5 % @ 30 mA

4- digit 7- segment Red LED (1.8") 250 mS - TC, 400 mS - RTD

General purpose MS Powder coated Dark Grey Approximately 1 kg 192W x 96H x 70D (all in mm) Panel mount / Grid mount compatible 188(W) x 92(H) (all in mm) 2.5 Sq. mm Terminal 2 mounting clamp, 250 resistor

230 VAC (-15% to +10%) @ 50Hz Less than 10 VA Between power supply terminal and ground terminal, 500V DC 50 M

Isolated from other input terminals. Isolated from other input terminals Isolated from other input terminals and internal circuit. Isolated from other input terminals and internal circuit.

0 to 55 deg C 20 to 90% RH (non-condensing) > 45 min

HARDWARE SPECIFICATIONS	408-2IN
Storage conditions	
Temperature	0 to 70 deg C
Humidity	20 to 90% RH (non-condensing)
Effect of operating conditions	
Effect of Ambient temperature	For T/C input, \pm 0.1% of F.S./ °C or less
	For Voltage input, \pm 0.05% of F.S./ °C or less
	For RTD input, \pm 0.13% of F.S./ °C or less
Effect on power supply flucutation (within rated voltage range)	For anlog input, within \pm 0.005 % of F.S./ 10V

TABLE 1		Range	Measurement Accuracy
Input Type			
Thermocouples	J	-100 to 1200 °C	\pm (0.25% of FS \pm 1 count)
	К	-100 to 1372 °C	\pm (0.25% of FS \pm 1 count)
	Т	-100 to 400 °C	\pm (0.25% of FS \pm 1 count)
	R	0 to 1768 °C	\pm (0.25% of FS \pm 1 count)
	S	0 to 1768 °C	\pm (0.25% of FS \pm 1 count)
TD	Pt-100	-199.9 to 850.0 °C	\pm (0.25% of FS \pm 1 count)
DC Voltage	1-5V	-1999 to 9999	\pm (0.1% of FS \pm 1 count)
	0-5V	-1999 to 9999	\pm (0.1% of FS \pm 1 count)

ORDERING CODE

Model		Input Type		APS	Mounting		
408-2IN	Х		XX		XX		
	2	J	A1	110Vac	P0	Panel	
	3	К	A2	230Vac			
	4	Т					
	6	R					
	7	S					
	9	Pt-100,3W					
	С	4-20mA					
	D	0-20mA					
	Е	1-5Vdc					
	F	0-5Vdc					

X - Specify from table

All specifications are subject to change without notice due technology reasons. Doc.ref.CB-2/408-2IN/R1/0110