



406
408-M

Digital Indicator



Masibus' Digital Indicator Model 406 and 408-M is a micro-controller based 4 digit process indicator, designed to accept multiple input types. Model 406 has 0.56" display size and model 408-M has 0.8" display size which facilitates plant operator to read process data very conveniently from a far distance.

Both models are equipped with field selectable inputs and field scalable ranges for flexible operations.

Built-in transmitter power supply eliminates the need of additional power supply to excite field transmitter, which makes this model well equipped.

It is a low cost high performance indicator which offers high accuracy of $\pm 0.25\%$ of full scale. This model can be used for Pt100, five different types of thermocouples and four types of linear inputs.

It is easy to operate and configuration is user friendly. CJC compensation for thermocouple input is done through software for higher accuracy.

The input is protected from reverse connection and over range inputs.

Features

- 4 digits, 0.56" or 0.8" LED display
- Universal input (TC, RTD, Volts, mA)
- Transmitter power supply
- Excellent longterm stability
- Easy configuration from front keys

Applications

- Current/voltage monitoring in drive panel
- RPM monitoring for VFD
- Temperature & process indication
- Plastics molding/extrusion temperature monitoring
- Heat treatment - furnace temperature monitoring
- Chillers
- Water heating boilers
- Oven control
- Pressure/ level/ flow monitoring

TECHNICAL SPECIFICATIONS

Input		Physical	
Input Type	Thermocouple (J, K, T, R, S),*** RTD (Pt100)***	Dimensions (in mm)	96(W) x 48(H) x 85(D)
Display Range	Refer table-1	Depth Behind Panel (in mm)	75
Accuracy	±0.25% of full span + 1°C for T/C and RTD input	Panel Cutout (in mm)	92(W) x 46(H)
ADC Resolution	16 bits	Mounting	Panel mount
Display Resolution	0.1°C / 1 °C	Weight	260 g (Approx)
Sampling Rate	5 Samples/Sec	Enclosure Material	ABS plastic
CJC Error	+/-3°C	Enclosure Protection	IP20
Sensor Open	All inputs except 0-5V, 0-10V	Terminal Cable Size	2.5 mm2
Sensor Burnout Current	0.25uA	Standard Accessories	2 Nos. clamp
RTD Excitation Current	0.166mA (Approx)	Environmental	
NMRR	> 40 dB	Operating Temperature	0-55 °C
CMRR	> 120 dB	Storage Temperature	0-80 °C
Temp-Co	< 100ppm for input to display	Humidity	20-95% RH non-condensing
Input Impedance	> 1MΩ for voltage input	Table-1: Display Range	
Max. Voltage	20V DC	Table-1: Display Range	
Display & Keys		Table-1: Display Range	
Model	406	Table-1: Display Range	
PV Display	0.56", 4-digits, 7-Segment red LED	Table-1: Display Range	
Keys	Enter, increase, decrease	Table-1: Display Range	
Output***		Table-1: Display Range	
Transmitter Power Supply	24VDC (±10%) @26mA	Table-1: Display Range	
Power Supply		Table-1: Display Range	
Standard	85-265VAC/ 100-300VDC	Table-1: Display Range	
Optional	18 to 36VDC	Table-1: Display Range	
Power Consumption	<3 VA	Table-1: Display Range	
Isolation (Withstanding voltage)		Table-1: Display Range	
Between primary terminals* and secondary terminals**: At least 1500 V AC for 1 minute		Table-1: Display Range	
* Primary terminals indicate power terminals		Table-1: Display Range	
** Secondary terminals indicate analog input signal		Table-1: Display Range	

Ordering Code				
Model	Input Type		Auxiliary Power Supply	
406	2	J	U1	85-265VAC / 100-300VDC
408-M	3	K	U2	18-36VDC
	4	T		
	6	R		
	7	S		
	9	Pt100		
	C	4-20mA		
	D	0-20mA		
	E	1-5V		
	F	0-5V		
	G	0-10V		