



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

- 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

* Primary terminals indicate power terminals ** Secondary terminals indicate analog input signal

	Input		Physical			
Input Type	Thermocouple RTD (Pt100). ((J, K, T, R, S), Current, Voltage	Dimensions (in mm) Depth Behind Panel (in mm)	96(W) x 48(H) x 85(D) 75		
Display Range	Refer Table-1	, 0	Panel Cutout (in mm)	92(W) x 46(H)		
. , ,	±0.25% of Full	Span + 1°C for T/C and RTD input	Mounting	Panel Mount		
Accuracy	±0.1% of Full S	pan + 1 count for Linear input	Weight	260 g (Approx.)		
ADC Resolution	16 bits		Enclosure material	ABS Plastic		
Display Resolutio	n 0.1°C / 1 °C		Enclosure Protection	IP20		
Sampling Rate	5 Samples/Sec		Terminal Cable Size	2.5 mm ²		
CJC Error	+/-3°C		Standard Accessories	2 Nos. Clamp		
Sensor open		pt 0-5V, 0-10V	Environmental			
Sensor Burnout c		,	Operating temperature	0-55 °C		
RTD excitation cu	, 11	rox)	Storage temperature	0-80 °C		
NMRR	> 40 dB		Humidity	20-95% RH non-condensing		
CMRR	> 120 dB		Table-1: Display Range			
Temp-co		Input to Display	Input Type		Range	
Input Impedance	> $1M\Omega$ for Vol 250 Ω for Curr	Ŭ I		J	-200 to 1200°C	
		ен прис		K	-200 to 1372°C	
Max Voltage	20V DC		Thermocouples	T	-200 to 400°C	
Display & Key				R	0 to 1768°C	
Model	406	408-M		S	0 to 1768°C	
PV Display	0.56", 4-Digits,	0.8", 4-Digits,	RTD	Pt100	-199.9 to 850.0°C	
1 V Display	7-segment Red LED	7-segment Red LED		0/1-5V		
Keys	Enter, Inc	rease, Decrease	Linear	0/4 to 20mA (Ext. 250Ω)	-1999 to 9999	
	Output			0-10V		
Transmitter Power Supply 24VDC (±10%) @26mA						
Power Supply						
Standard 85-265VAC/ 100-300VDC		100-300VDC				
Optional	18 to 36VDC					
Power Consumpt	ion <3 VA					
Isolation (Withstan Between primary t		ls**: At least 1500 V AC for 1 minute				

Ordering Code

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