





406 406L 408-M Digital Indicator



Masibus' Digital Indicator Model 406, 406L and 408-M is a micro-controller based 4 digit process indicator, designed to accept multiple input types. Model 406, 406L have 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)				
пристуре	Current, voltag	е	Depth Behind Panel (in mm) 75				
Display Range	Refer table-1		Panel Cutout (in mm) 92(W) x 46(H)				
Accuracy		pan + 1°C for T/C and RTD input	Mounting Panel mount				
, i		an + 1 count for linear input	Weight	3 (11)			
ADC Resolution	16 bits		Enclosure Material	, iso plactic			
Display Resolution			Enclosure Protection IP20				
Sampling Rate	5 Samples/Sec		Terminal Cable Size	2.5 mm2			
CJC Error	+/-3°C		Standard Accessories 2 Nos. clamp				
Sensor Open	All inputs excep	ot 0-5V, 0-10V	Environmental				
Sensor Burnout ()	Operating Temperature	perating Temperature 0-55 °C			
RTD Excitation C	\ 11	OX)	Storage Temperature	0-80 °C			
NMRR	> 40 dB		Humidity	Humidity 20-95% RH non-condensing			
CMRR	> 120 dB		Table-1: Display Range				
Temp-Co	< 100ppm for i		Input Type	. , ,	Range		
Input Impedance	> 1MΩ for volta		, ,,	J	-200 to 1200°C		
	250Ω for curre	it iriput		K	-200 to 1372°C		
Max. Voltage	20V DC		Thermocouples	T	-200 to 400°C		
Display & Keys			·	R	0 to 1768°C		
Model	406, 406L	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		
r v Display	7-Segment red LED	7-Segment red LED		0/1-5V			
Keys	Enter, incre	ease, decrease	Linear	0/4 to 20mA (Ext. 250Ω)	-1999 to 9999		
	Output***			0-10V			
Transmitter Pow	er Supply 24VDC (±10%)	@26mA					
	Power Supply						
Standard 85-265VAC/ 100-300VDC							
Optional 18 to 36VDC							
Power Consumption <3 VA							
Isolation (Withstanding voltage) Between primary terminals* and secondary terminals**: At least 1500 V AC for 1 minute * Primary terminals indicate power terminals ** Secondary terminals indicate analog input signal							

Ordering Code

Model	Input Type		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		
	Ε	1-5V		
	F	0-5V		
	G	0-10V		

Model	Input Type		Auxiliary Power Supply		
406L	С	4-20mA	U1	85-265VAC / 100-300VDC	
	D	0-20mA	U2	18-36VDC	
	Ε	1-5V			
	F	0-5V			
	G	0-10V			

Note: ***Not applicable for model 406L