



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	Thermoco	uple (J, K, T, R, S),*** RTD (Pt100)***	Dimensions (in mm) 96(W) x 48(H) x 85(D)								
пристуре	Current, vo	5	Depth Behind Panel (in mm) 75								
Display Range	Refer table		Panel Cutout (in mm) 92(W) x 46(H)								
Accuracy		Ill span + 1°C for T/C and RTD input	Mounting Panel mount								
2		l span + 1 count for linear input	Weight	260 g (Approx)							
ADC Resolution	16 bits			nclosure Material ABS plastic							
Display Resolution			Enclosure Protection	11 20							
Sampling Rate	5 Samples	/Sec	Terminal Cable Size	2.5 mm2							
CJC Error	+/-3°C		Standard Accessories 2 Nos. clamp								
Sensor Open		xcept 0-5V, 0-10V	Environmental								
Sensor Burnout Cu			Operating Temperature 0-55 °C								
RTD Excitation Cu	(Approx)	Storage Temperature	0-80 °C							
NMRR	> 40 dB		Humidity	20-95% RH non-condensing							
CMRR	> 120 dB		Table-1: Display Range								
Temp-Co		for input to display	Input Type		Range						
Input Impedance		voltage input	input type	J	-200 to 1200°C						
		urrent input		K	-200 to 1372°C						
Max. Voltage	20V DC		Thermocouples	Т	-200 to 400°C						
	Display & K	eys	meimeeeupiee	R	0 to 1768°C						
Model	406, 406L	408-M		S	0 to 1768°C						
	0.56", 4-digits,	0.8", 4-digits,	RTD	Pt100	-199.9 to 850.0°C						
PV Display	7-Segment red LED	7-Segment red LED		0/1-5V							
Keys	Enter.	ncrease, decrease	Linear	0/4 to 20mA (Ext. 250Ω)	-1999 to 9999						
-) -	Output**	*		0-10V							
Transmitter Power Supply 24VDC (±10%) @26mA		0%) @26mA									
	Power Sup	ply									
Standard		/ 100-300VDC									
Optional	18 to 36VD										
Power Consumpti											
Isolation (Withstanding voltage)											

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		
	б	R		
	7	S		
	9	Pt100		
	С	4-20mA		
	D	0-20mA		
	Е	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	
	Е	1-5V			
	F	0-5V			
	G	0-10V			

Note: ***Not applicable for model 406L