



Model 409-4IN and 409-6IN are the large display Indicator which can be monitored up to distance of 160 feet (50m). 409-4IN has 100 mm Red LED display and 409-6IN has 150 mm P10 based Red LED module display. Its large digit facilitates process value to be monitored across wider geographical area in plant. It has most advanced features for monitoring and communication of process status.

Model 409-4IN / 409-6IN accepts 21 different industry standard inputs with high accuracy of 0.1% to measure temperature, pressure and other process variables. It is easy to operate and configuration is user friendly. CJC compensation for thermocouple input is done through software for higher accuracy.

Model 409-4IN / 409-6IN can be interfaced with SCADA/PLC using optional RS485 communication and analog retransmission output for process automation. It has two-way communication facility allowing user to read and write PV over Modbus between any Master device and Indicator.

Alarm can be configured for two set points which are indicated on front Status LEDs. This Indicator has SMPS power supply for smooth and reliable performance. It is also equipped with transmitter power supply.

Model 409-4IN utilizes its unique feature of LED brightness control which enables plant engineers/ operators to adjust intensity of controllers' LED display in order to achieve comfort for eyes.

Model 409-6IN display has a high brightness for outdoor application

Model 409-4IN / 409-6IN is equipped with advanced functions like digital filtering, password setting, input and output protection and square root function for optimum process functionality.

Features

- 409-4IN: 4" (100mm) Large Red LED Display
- 409-6IN: 6" (150mm) Large P10 based Red LED module
- 21 selectable input types (TC, RTD, mV, mA, V, Ω)
- Transmitter Power Supply
- RS485 serial communication (optional)
- PV write facility via Serial input
- Programmable retransmission output (optional)
- Two programmable alarm outputs (optional)
- Available with 19" Rack & IP65 Wall mount enclosure
- Display brightness control
- Serial RS485 Input (Modbus Slave Read/Write)
- Input Scalability for Linear input type
- Square Root Extraction for linear input type.
- Selectable Digital Filter 0-60 Sec
- 409-6IN display has a high brightness for outdoor application

Applications

- Temperature & process indication
- Pressure/ Level/ Flow Monitoring
- Plastics molding/extrusion temperature monitoring
- Heat treatment furnace temperature monitoring
- Weighing platform
- Remote Process Supervision

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TECHNICAL SPECIFICATIONS											
Input					Isolation (Withstanding voltage)						
Input Type Thermocouple (E, J, K, T, B, R, S), RTD (Pt100), Current, Voltage, Resistance Display Range Table-1				Between primary terminals* and secondary terminals**: At least 1500 V AC for 1 minute Between primary terminals* and grounding terminal: At least 1500 V AC for 1 minute Between grounding terminal and secondary terminals**: At least 1500 V AC for 1 minute Between secondary terminals**: At least 500 V AC for 1 minute Primary terminals indicate power terminals and relay output terminals. **Secondary terminals indicate analog I/O signal and Communication O/P.							
Accuracy ±0.1% of FS ± 1Digit					Insulation resistance: $20M\Omega$ or more at 500 V DC between power terminals and grounding terminal.						
ADC Resolution	17 bits			Physical							
1 /	olay Resolution 0.1°C/ 1 Count				409-4IN						
Sampling Rate	4 Samples/Sec ±2.0 °C			Er	nclosure Protection	ID20	407-4	IP65		409-6IN IP65	
CJC Error		10\/	. 10\/ 0 20 1	LI	iciosure Frotection		Panel Mount			11.02	
Sensor open	All inputs except 0-5V, 0-10V, ± 10V, 0-20mA			М	lounting 19"		Mount	Wall Mou	unt	Wall Mount	
Sensor Burnout current	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						/)x175(H)	500(W)x	300(H)	405(W)X250(H)	
RTD excitation current	0.8 mA (Approx.)			Di	imensions(in mm)	x70(D)	, , ,	x120(D)	000(11)	X90(D)(with clamp)	
NMRR	> 40 dB						0.8) x175				
CMRR	> 100 dB			Pā	anel Cutout (in mm)	(+0.8)				NA	
Temp-co	< 100ppm for Input to Display				/eight (Approx.)	3 Kg 8.3 Kg				5 Kg	
< 150ppm for retransmission output					nclosure material			_	der Coated		
Input Impedance	> 1MΩ for TC, 0-2V, 0.4	,	,	Te	erminal Cable Size			2.5mr	m²		
	> 840 kΩ for 0-5V, 1-5V	/, O-10)V, ±10V					4 Nos. W			
Max Voltage	20VDC						Clamp, 2	Mounting		0.11 0.01/	
	Display & Keys				andard		for 19"	Bracket,	_	3 Nos. PG16	
400)9-6IN	ı	A	ccessories	Rack /		of PG16		Gland	
	Z II		pased Red-Led High			Mount		(For Cabl	le entry)		
	-our-aigit Seven		htness module,		Environmental						
seg		2X16			perating temperatu	ro O	55 °C	ittui			
Status Indication	4 Red LED's for (Ala				torage temperature		80 °C				
Keys	Menu, Enter, Incre		,		lumidity		-95% RH non	condons	ina		
ICV3	Output	asc, D	/cci casc		iumiuity				IIIg		
Al 0 : 1/0 ::	<u> </u>			-	L.		ble-1: Display	y Kange		D	
Alarm Output (Optional					Input Type				Range		
Relays	2 Nos.		~ `			Е				1000°C	
Type Single Change over (C, NO, NC)					J			-200 to 1200°C			
Rating 5A @ 230VAC / 30VDC						K			-200 to 1350°C		
Retransmission Output (Optional)			ĮΤ	hermocouples	T			-200 to 400°C			
Current	0/4-20mA @500Ω Max.					В			450 to 1800°C		
Voltage	0/1-5V, 0-10V @2KΩ M	lin.				R			0 to 1750°C		
Accuracy 0.25% of FS					S			0 to 1750°C			
Communication (Optior				R'	TD	Pt-	-100		-199.9 t	to 850.0°C	
Interface	Interface RS485 (2 Wire)			D.	esistance	0 -	400Ω		1000 +	0000	
Protocol	rotocol Modbus-RTU			Kesistalice		0 - 6000Ω			-1999 to 9999		
Baud rate	Baud rate 4800, 9600, 19200, 38400					1-5V /4-20mA					
Transmitter Power	04)/DC/:400/) 050 A					0-:	5V/0-20mA				
Supply 24VDC (±10%) @50mA						0-2V					
,	Power Supply			1		0.4	1-2V				
Supply Voltage	85-265VAC/ 125-300VI	DC		Li	inear	±1	0 V		-1999 to	o 9999	
Supply Voltage	409-4IN <10 VA	DC				0 -	10 V				
Power consumption	409-411\ \ 10 VA					-10	0-20mV				
	407-0111 \30 VA					±7	5 mV				
						0-	75mV				
				Se	erial (RS485)	PV	write Facility	/	1999 to	9999	
			ORDERII								
Model	Input Type		Communication		Relay		Retransmissio	n O/P	Moun	ting (Protection)*	
409-4IN	X X	Х	Communication	Х		X	CCI 01131111331U	11 O/F	X	ing (Frotection)	
409-6IN	1 E	N	None	N		N	None			P" Rack (IP20)	
407-011N	2 J		None DC 405	Y			4-20mA			'all (IP20)	
		Υ	RS485	Υ	2 INCIDYS	С				, ,	
	3 K					D	0-20mA	\	AAT. AA	'all (IP65)	
	4 T					E	1-5V				
	5 B					F	0-5V				
	6 R					G	0-10V				

409-4IN	X	X	X	X	X
409-6IN	1 E	N None	N None	N None	PO 19" Rack (IP20)
	2 J	Y RS485	Y 2 Relays	C 4-20mA	WO Wall (IP20)
	3 K			D 0-20mA	W1* Wall (IP65)
	4 T			E 1-5V	
	5 B			F 0-5V	
	6 R			G 0-10V	
	7 S				
	9 Pt-100				
	C 4-20mA				
	D 0-20mA				
	E 1-5V				
	F 0-5V				
	G 0-10V				
	H 0-2 V				
	I 0.4 - 2V				
	R ±75mV				
	U 0-75mV				
	V 0-400Ω		ected, RS485 o/p needs to be select	ted	
	W 0-6000Ω	*406-6IN model available in If	P65 Wall mount option only		
	M Serial RS485 [#]				
	S Special				

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