



## 8208-IP Weather Proof Scanner

4 / 8 - Channel

The 8208-IP Scanner offers 4 / 8 channel monitoring with advanced functions and full programming features with touch sense keys in IP65 Weather proof protection for monitoring process values and protection application.

8208-IP has option for 4/ 8 channels accepting universal input and 4 relays to serve various applications. The unit has separate Numeric displays for CH. No., Group and Process Value. All Configuration and Calibration can be done from front keypad.

8208-IP has 4 relays with full mapping and logic flexibility. User has facility to program alarm, trip set-points and logic individually or group wise. Channels can be configured up to 4 groups with one relay per group; 2 groups with 2 relays per group or 1 group with 4 relays per group. Two discrete LEDs are provided per channel and one LED per relay for indication.

8208-IP has built-in Isolated RS485 serial communication port with Modbus RTU protocol and provides optional analog retransmission output with Max/ Min to further interface with PLC/DAS/DCS/ SCADA.

8208-IP is a wall mounting unit with 6 nos of PG11 glands for multi-core cable wiring. However 8 channels Scanner has an optional possibility of upto 12 nos PG11 glands.

## Features

- Universal input for each Analog Input
- IP65 for Weather proof protection
- Easy Programming by front Touch sense keypad
- Fast Sampling rate with instantaneous relay action
- Four relays for alarm/trip
- RS485 Serial communication port for remote monitoring
- Comprehensive Alarm/Trip logic programming
- Multiple Levels of configuration and password protection
- Retransmission output (Optional)

## Applications

- Generator Monitoring and Protection
- Pharma application
- Chemical industries
- Monitoring of Air compressor, pump, transformers, fans and blowers DG temperature monitoring
- Motor protection: Winding & Bearing temperature
- Water and Waste-Water remote monitoring
- Electrical Sub-station monitoring
- Drying Ovens
- Fermentation Processes
- Flow Monitoring
- Retorts and Cooking Processes
- Heat Treatment: to achieve desired result of hardening or softening material
- Power Monitoring
- As a SCADA RTU
- Metal and mining applications
- Machine condition monitoring
- As a distributed I/O module for interface with PLC/DCS/DAS etc

## **TECHNICAL SPECIFICATIONS**

	Input	Power Supply				
No of channels	4 or 8	Standard	85-265VAC @	50Hz / 60 Hz / 110-290VDC		
Input Turne	Thermocouple (E, J, K, T, B, R, S, N),	Optional 18-36VDC				
Input Type	RTD (Pt-100), Current, Voltage	Power Consumption 15VA Max				
Display Range	Refer Table-1	Isolation (Withstanding	voltage)			
Accuracy	0.1% of FS + 1 Digit	Between primary terminals* and secondary terminals**: At least 1500 V AC for 1 minute				
ADC Resolution	17 bits	Between primary terminals* and grounding terminal: At least 1500 V AC for 1 minute				
Display Resolution	0.1 / 1.0°C	Between grounding terminal and secondary terminals**: At least 1500 V AC for 1 minute				
Sampling Rate	TC and Linear Input :100mSec/channel	Between secondary terminals**: <b>At least 500 V AC for 1 minute</b> * Primary terminals indicate power terminals and relay output terminals.				
Sampling Rate	RTD Input: 200mSec/channel	** Secondary terminals in				
CJC Error	±2.0°C	Insulation resistance: $20M\Omega$ or more at 500V DC between power terminals and				
T/C Burnout current	0.25μΑ	grounding terminal.				
RTD Excitation current	1 mA (Approx.)	Physical				
NMRR	> 40dB	Dimension (in mm)				
CMRR	> 120dB	Weight				
Temp-co	< 100ppm/°C	Enclosure	Steel sheet, 1.25 mm			
Input Impedance	> 1MQ	Type of Protection	NEMA 4, IP65			
Max Voltage	20VDC	Cable Entry Size / N		ands*		
	Display & Keys	Mounting	Wall Mount			
Process Value	4-digit, 0.56", Red seven segment LED	Accessories 4 numbers mounting clamps				
Channel No.	2-digit, 0.56", Green seven segment LED	Enviromental				
Group No.	1-digit, 0.56", Red seven segment LED	Operating Temperature 0-70° C				
	4 Red LEDs for Relay status, 1 Red LED	Storage Temperature 0-80° C   Humidity 30-95% RH non-condensing   Table 1: Display Range				
Status	Auto/Manual mode status, 2 Green LEDs					
	for Communication, 1 Red LED for Fault, 16 Red LEDs for Alarms					
	Menu, Escape / A/M, Increment,	In	put Type	Range		
Keys	Shift / Down / ACK		E	-200 °C to 1000 °C		
	Output	-	J	-200 °C to 1200 °C		
Delere	Output	-	К	-200 °C to 1370 °C		
Relay	4	Thermocouple	Т	-200 °C to 400 °C		
No of Relays	4 Single Change story (C. N.O. N.C.)	mermoeoupie	В	450 °C to 1800 °C		
Type	Single Change over (C, NO, NC)		R	0 to 1750 °C		
Rating	2A@250VAC / 30VDC		S	0 to 1750 °C		
Time Delay Retransmission Output (Opt	1 to 99 secs		Ν	-200 °C to 1300 °C		
	0/4-20mA @ 500Ω Max	RTD	Pt-100	-199.9 to 850.0° C		
Current Voltage	0/4-20mA @ 500Ω Max 0/1-5VDC, 0-10VDC @3KΩ Min		-10 - 20mV			
Accuracy (DAC)	0.25% of FS		0 - 75mV			
	Max or Min Reading of Channels		0 - 100mV			
Selection Communication Output	Max of Mill Reduing of Chathels		0.4 - 2V DC			
-	DC40E	Linear	4-20 mA (Ext.100Ω)	-1999 to 9999		
Interface	RS485 Modbus RTU	Enrou	0 - 2 VDC	1///10////		
Protocol David Data			0 - 20mA (Ext 100Ω)			
Baud Rate	9600, 19200		0 - 5V			
			1 - 5V			
			0 - 10V			

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	Model No. of Input		I	Input Type Au		Auxilliary Power Supply	Retransmission Output Type		
	8208-IP	4	4 Channels	1	E	U1	85-265 VAC / 110-290VDC	Ν	None
		8	8 Channels	2	J	U2	18-36 VDC	1	4-20mA
				3	К			2	0-20mA
				4	Т			3	1-5 V
				5	В			4	0-5 V
				6	R			5	0-10 V
				7	S				
				8	Ν				
				9	Pt-100				
				А	-10 to 20mV				
				В	0-75 mV				
				С	0-100 mV				
				D	0-2 V				
				Е	0.4-2 V				
				F	0-5 V				
				G	1-5 V				
				Н	0-10 V				

\*Standard 6 nos. PG11 glands are supplied for both 4/8 channel Scanner. In 8 channel scanner upto 12 nos.PG11 glands can be provided if required at extra cost. Any change in type and no. of glands please consult factory before order placement