



8208

8-Channel Scanner/ DAQ Module

Compact. Advanced. Fast

8208 Scanner offers multi-channel monitoring with advanced functions and simple programming features in very compact 1/4 DIN size for monitoring process values and protection application.

8208 has flexible configuration option for 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 panel keypad.

8208 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 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.

Features

- Universal input for each Analog Input
- Compact 1/4 DIN mounting
- Front Panel Programming
- 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
- 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

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TECHNICAL SPECIFICATIONS

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	Input	Power Supply							
No of Input	8	Standard	85-265VAC / 1	10-300VDC					
Input Type	Thermocouple (E, J, K, T, B, R, S, N),	Optional 18-36VDC							
пристуре	RTD (Pt-100, 3W), Current, Voltage	Power Consumption <15VA							
Display Range	Refer Table-1	Isolation (Withstanding voltage)							
Accuracy	±0.1% of FS ± 1 Count	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 Between secondary terminals**: At least 500 V AC for 1 minute							
Sampling Rate	TC and Linear Input :100mSec/channel RTD Input: 200mSec/channel	* Primary terminals indicate power terminals and relay output terminals. ** Secondary terminals indicate Analog I/O signal and Communication O/P.							
CJC Error	±2.0°C	Insulation resistance: $20M\Omega$ or more at $500V$ DC between power terminals and							
Sensor Open	All inputs except 0-5VDC / 10VDC	grounding terminal.							
T/C Burnout current	0.25μΑ	Physical							
RTD Excitation current	1 mA (Approx.)	Dimension (in mm)	Dimension (in mm) 96(H) x 96(W) x 110(D)						
NMRR	> 40dB	Front Bezel (in mm) 96(H) x 96(W)							
CMRR	> 120dB	Panel Cutout (in mm) 92.5(H) x 92.5(W)							
Temp-co	< 100ppm/°C	Depth behind Panel 110 mm							
Input Impedance	> 1MΩ	Enclosure Molded ABS							
Max Voltage	20VDC	Weight 500 grams approx.							
	Display & Keys	Protection	IP20						
Process Value	4-digit, 0.56", Red seven segment LED	Terminal Cable size 2.5 mm ²							
Channel No.	2-digit, 0.56", Green seven segment LED	Accessories 2 numbers mounting clamps							
Group No.	1-digit, 0.56", Red seven segment LED	Environmental							
	4 Red LEDs for Relay status, 1 Red LED	Operating Temperature 0-55° C							
Status	Auto/Manual mode status, 2 Green LEDs	Storage Temperature	e 0-80° C						
	for Communication, 1 Red LED for Fault,	Humidity 30-95% RH non-condensing							
	16 Red LEDs for Alarms	Table 1: Display Range							
Keys	Yeys Menu/Enter, Escape, A/M, Increment, Shift Key/Decrement		Input Type Range						
	Output		E	-200 °C to 1000 °C					
Relay	2 34 4 32		J	-200 °C to 1200 °C					
No of Relays	4		K	-200 °C to 1370 °C					
Type	Single Change over (C, NO, NC)	Thermocouple	T	-200 °C to 400 °C					
Rating	2A@230VAC / 30VDC	'	В	450 °C to 1800 °C					
Time Delay	1 to 99 secs		R	0 to 1750 °C					
Retransmission Output (Opt			S	0 to 1750 °C					
Current	0/4-20mA @ 500Ω Max	DTD	N Di 100	-200 °C to 1300 °C					
Voltage	0/1-5V, 0-10V @3KΩ Min	RTD	Pt-100	-199.9 to 850.0 °C					
Accuracy	0.25% of FS		-10 - 20mV						
Selection	Max or Min Reading of Channels		0 - 75mV						
Communication Output			0 - 100mV						
Interface	RS485		0.4 - 2V DC						
Protocol	Modbus RTU	Linear	4-20 mA (Ext.100Ω)	-1999 to 9999					
Baud Rate	9600. 19200		0 - 2 VDC						
	,		0 - 20mA (Ext 100Ω) 0 - 5V						
			1 - 5V						
			0 - 10V						

ORDERING CODE

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	Model	Input Type		Auxilliary Power Supply		Retransmission Output Type		
	8208	1	E	U1	85-265 VAC / 110-300VDC	Ν	None	
		2	J	U2	18-36 VDC	1	4-20mA	
		3	K			2	0-20mA	
		4	T			3	1-5 V	
		5	В			4	0-5 V	
		6	R			5	0-10 V	
		7	S					
		8	Ν					
		9	Pt-100					
		Α	-10 to 20mV					
		В	0-75 mV					
		С	0-100 mV					
		D	0-2 V					
		Ε	0.4-2 V					
		F	0-5 V					
		G	1-5 V					
		Н	0-10 V					