



8208-IP

Weather Proof Scanner

8 - Channel



The 8208-IP Scanner offers 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 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 RS-485 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
- RS-485 serial communication port for remote monitoring
- Comprehensive alarm/trip logic programming multiple levels of configuration and password protection
- Retransmission output

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	8	Standard	85-265VAC @ 50Hz / 60 Hz / 110-290VDC			
Input Type	Thermocouple (E, J, K, T, B, R, S, N), RTD (Pt-100), Current, Voltage	Optional	18-36VDC			
Display Range	Refer table-1	Power Consumption	15VA Max.			
Accuracy	0.1% of FS + 1 digit	Isolation (Withstanding voltage) 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. Insulation resistance: 20MΩ or more at 500V DC between power terminals and grounding terminal.				
ADC Resolution	17 bits					
Display Resolution	0.1 / 1.0°C					
Sampling Rate	TC and linear input :100mSec./channel RTD input: 200mSec./channel					
CJC Error	±2.0°C					
T/C Burnout current	0.25µA					
RTD Excitation current	1 mA (Approx.)					
NMRR	> 40dB					
CMRR	> 120dB					
Temp-co	< 100ppm/°C					
Input Impedance	> 1MΩ	Physical				
Max. Voltage	20VDC					
Display & Keys						
Process Value	4-Digit, 0.56", red seven segment LED					
Channel No.	2-Digit, 0.56", green seven segment LED					
Group No.	1-Digit, 0.56", red seven segment LED					
Status	4 Red LEDs for relay status, 1 red LED auto/manual mode status, 2 Green LEDs for communication, 1 red LED for fault, 16 red LEDs for alarms					
Keys	Menu, escape / A/M, increment, shift / down / ACK					
Output						
Relay				Table 1: Display Range		
No of Relays	4					
Type	Single change over (C, NO, NC)					
Rating	2A@250VAC / 30VDC					
Time Delay	1 to 99 secs.					
Retransmission Output						
Current	0/4-20mA @ 500Ω max.					
Voltage	0/1-5VDC, 0-10VDC @3KΩ min					
Accuracy (DAC)	0.25% of FS					
Selection	Max. or min. reading of channels					
Communication Output						
Interface	RS-485					
Protocol	Modbus RTU					
Baud Rate	9600, 19200					
				Input Type		
				Range		
				Thermocouple	E	-200 °C to 1000 °C
					J	-200 °C to 1200 °C
					K	-200 °C to 1370 °C
					T	-200 °C to 400 °C
		B	450 °C to 1800 °C			
		R	0 to 1750 °C			
		S	0 to 1750 °C			
		N	-200 °C to 1300 °C			
RTD	Pt-100	-199.9 to 850.0 °C				
Linear	-10 - 20mV	-1999 to 9999				
	0 - 75mV					
	0 - 100mV					
	0.4 - 2V DC					
	4-20 mA (Ext.100Ω)					
	0 - 2 VDC					
	0 - 20mA (Ext 100Ω)					
	0 - 5V					
1 - 5V						
0 - 10V						

Ordering Code									
Model		No. of Input		Input Type		Auxilliary Power Supply		Retransmission Output Type	
8208-IP	8	8 Channels	1	E	U1	85-265 VAC / 110-290VDC	18-36 VDC	N	None
			2	J	U2			1	4-20mA
			3	K				2	0-20mA
			4	T				3	1-5 V
			5	B				4	0-5 V
			6	R				5	0-10 V
			7	S					
			8	N					
			9	Pt-100					
			A	-10 to 20mV					
			B	0-75 mV					
			C	0-100 mV					
			D	0-2 V					
			E	0.4-2 V					
			F	0-5 V					
			G	1-5 V					
			H	0-10 V					

*Standard 6 nos. PG11 glands are supplied for 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