



Type-1

Type-2

8208-XP

8-Channel Ex-Proof Scanner



Masibus model 8208-XP Scanner, is the Ex-proof version of model 8208, and is certified for use in Hazardous areas and is available in two types of enclosures.

8208-XP is the most compact multi-point scanner available in the market; designed with the latest Touch Sense Keys to give full programmability and ease of operation.

8208-XP comes in density of 8 channels; each channel input type is universal and has 4 fully programmable relay output for Alarm/trip purpose. The unit has separate Numeric displays for channel. Group and PV. All Configuration and Calibration can be done from front panel keypad.

The 4 relays can be freely mapped as Alarm, Trip or control set point. User has option to program 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 status indication.

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

8208-XP is available in two options Type-1 and Type-2 Wall Mount Enclosure. 8208-XP Type-1 Enclosure has maximum 8 glands possibility, whereas 8208-XP Type-2 Enclosure has maximum of 12 glands possibility and also has Rotary Switch for on/off.

Features

- Universal input per channel
- Ex-proof protection for Gas groups IIA & IIB, IP65, Zone-1
- Operation by front Touch sense keys
- 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
- Analog Retransmission

Applications

- Hazardous areas like Chemical / Oil & Gas Petrochemical Industries
- Pharma application
- Gas compressors
- Mining Equipment monitoring and protection
- Gas detection
- Fire detection and annunciation
- As a distributed I/O module for interface with PLC/DCS/DAS etc

TECHNICAL SPECIFICATIONS

Input		Isolation (Withstanding voltage)		
No of Input	8	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 I/O signal and Communication O/P.		
Input Type	Thermocouple (E, J, K, T, B, R, S, N), RTD (Pt100), Current, Voltage			
Display Range	Refer Table-1			
ADC Resolution	17 bits			
Display Resolution	0.1 / 1.0°C			
Sampling Rate	TC and Linear Input :100mSec/per channel RTD Input: 200mSec/per channel			
Accuracy	±(0.1% of Full Scale +1digit)			
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			
Max Voltage	20VDC			
Display & keys		Physical		
Process Value	4-digit, 0.56", Red seven segment LED	Enclosure	Aluminium Alloy LM-6 Type-1* : Type-1 Enclosure do not have Rotary Switch and max upto 8 glands only possible Type-2 : Type-2 Enclosure has On/Off Rotary Switch and max upto 12 glands possible	
Channel No.	2-digit, 0.56", Green seven segment LED		8208-XP Type 1: 5 Kg 8208-XP Type 2: 8 Kg	
Group No.	1-digit, 0.56", Red seven segment LED		8208-XP Type 1: 220 X 220 X 140 8208-XP Type 2: 265 X 265 X 150	
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		Gas Groups IIA & IIB, IP65, Zone: 1, 2	
Keys	Menu, Escape / A/M, Increment, Shift/Down/ ACK	Cable Entry Size	3/4" ET	
Output		Cable Entry No	8208-XP Type 1: Max 8 glands 8208-XP Type 2: Max 12 glands	
Relay	No of Relays 4 Type Single Change over (C, NO, NC) Rating 2A@250VAC / 30VDC Time Delay 1 to 99 secs	Mounting	Wall Mount	
		Environmental		
		Operating Temperature	0-70° C	
		Storage Temperature	0-80° C	
Retransmission Output		Humidity	30-95% RH non-condensing	
Current	0/4-20mA @ 500Ω Max	Table 1: Display Range		
Voltage	0/1-5V, 0-10V @3KΩ Min	Input Type		
Accuracy	0.25% of FS	Thermocouple	Range	
Selection	Max or Min Reading of Channels		E	-200 °C to 1000 °C
Communication Output	Interface RS485 Protocol Modbus RTU Baud Rate 9600, 19.2K		J	-200 °C to 1200 °C
			K	-200 °C to 1370 °C
			T	-200 °C to 400 °C
			B	450 °C to 1800 °C
Power Supply	Standard 85-265VAC @ 50 Hz / 60 Hz, 110-290VDC Optional 18-36VDC Consumption 15VA Max		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
Power Supply	Standard 85-265VAC @ 50 Hz / 60 Hz, 110-290VDC Optional 18-36VDC Consumption 15VA Max	Linear	0 - 75mV	-1999 to 9999
			0 - 100mV	
			0.4 - 2V DC	
			4-20 mA (Ext.100Ω)	
			0 - 2 VDC	
			0 - 20mA (Ext.100Ω)	
			0 - 5V	
			1 - 5V	
0 - 10V				
-10 - 20mV				

ORDERING CODE

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