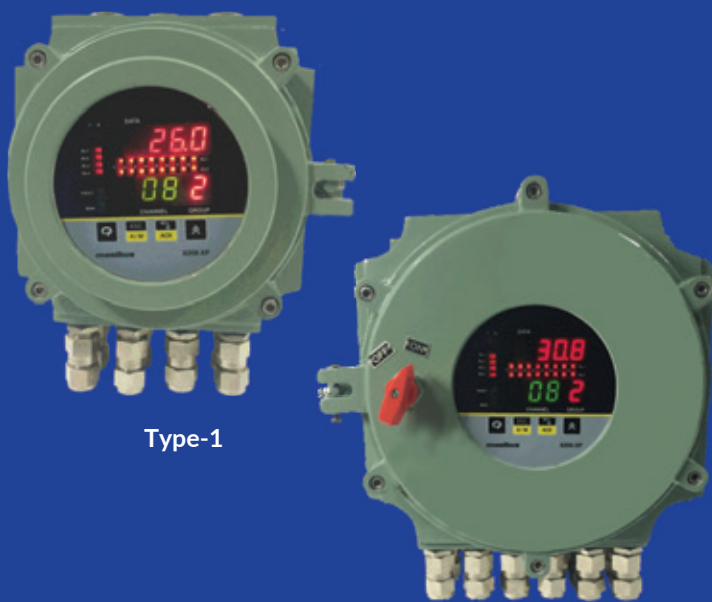




Type-1

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 4 or 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 (optional: IIC group)
- 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	4 or 8	Between primary terminals* and secondary terminals**: At least 1500 V AC for 1 minute		
Input Type	Thermocouple (E, J, K, T, B, R, S, N), RTD (Pt100), Current, Voltage	Between primary terminals* and grounding terminal: At least 1500 V AC for 1 minute		
Display Range	Refer Table-1	Between grounding terminal and secondary terminals**: At least 1500 V AC for 1 minute		
ADC Resolution	17 bits	Between secondary terminals**: At least 500 V AC for 1 minute		
Display Resolution	0.1 / 1.0°C	* Primary terminals indicate power terminals and relay output terminals.		
Sampling Rate	TC and Linear Input :100mSec/per channel RTD Input: 200mSec/per channel	** Secondary terminals indicate I/O signal and Communication O/P.		
Accuracy	±(0.1% of Full Scale +1digit)	Insulation resistance: 50MΩ @ 500V DC or more between power terminals and grounding terminal.		
CJC Error	±2.0° C			
T/C Burnout current	0.25μA			
RTD Excitation current	1 mA (Approx.)			
NMRR	> 40dB	Enclosure	Aluminium Alloy LM-6	
CMRR	> 120dB		Type-1* : Type-1 Enclosure do not have Rotary Switch and max upto 8 glands only possible	
Temp-co	< 100ppm/°C		Type-2 : Type-2 Enclosure has On/Off Rotary Switch and max upto 12 glands possible	
Input Impedance	> 1MΩ	Weight (without glands)	8208-XP Type 1: 5 Kg	
Max Voltage	20VDC		8208-XP Type 2: 8 Kg	
Display & keys		Dimension in mm (HxWxD)	8208-XP Type 1: 220 X 220 X 140 8208-XP Type 2: 265 X 265 X 150	
Process Value	4-digit, 0.56", Red seven segment LED	Type of Protection	Gas Groups IIA & IIB, IP65, Zone: 1, 2 Optional: Group IIC	
Channel No.	2-digit, 0.56", Green seven segment LED	Cable Entry Size	3/4" ET	
Group No.	1-digit, 0.56", Red seven segment LED	Cable Entry No	8208-XP Type 1: Max 8 glands 8208-XP Type 2: Max 12 glands	
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	Mounting	Wall Mount	
Keys	Menu, Escape / A/M, Increment, Shift/Down/ ACK	Environmental		
Output		Operating Temperature	0-70° C	
Relay		Storage Temperature	0-80° C	
		Humidity	30-95% RH non-condensing	
Table 1: Display Range				
		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	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				
Power Supply				
Standard	85-265VAC @ 50 Hz / 60 Hz, 110-290VDC	ORDERING CODE		
Optional	18-36VDC			
Consumption	15VA Max			

Model	No of Input		Enclosure Type		Input Type		Auxilliary Power Supply		No of Glands		Retransmission Output Type		Gas Group	
8208-XP	4	4 Channels	T1	Type-1*	1	E	U1	85-265 VAC / 110-290VDC	4	4 Glands	N	None	1	IIA/IIB
	8	8 Channels	T2	Type-2	2	J	U2	18-36 VDC	6	6 Glands	1	4-20mA	2	IIC
					3	K			8	8 Glands	2	0-20mA		
					4	T			12	12 Glands*	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	0.4-2 V								
					E	0-2 V								
					F	0-5 V								
					G	1-5 V								
					H	0-10 V								

* Max upto 8 glands only possible in Type-1 Enclosure

12 glands is possible only in Type-2 Enclosure

* Max upto 8 glands only possible in Type-1 Enclosure
12 glands is possible only in Type-2 Enclosure