



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 (Optional)

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

www.masibus.com sales@masibus.com

TECHNICAL SPECIFICATIONS

TECHNICAL S	I ECH IC/ (IIOI13							
	Input	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 I/O signal and Communication O/P. Insulation resistance: 50M\(\Omega \) 600V DC or more between power terminals and grounding terminal.						
No of Input Input Type Display Range ADC Resolution Display Resolution Sampling Rate	4 or 8 Thermocouple (E, J, K, T, B, R, S, N), RTD (Pt100), Current, Voltage Refer Table-1 17 bits 0.1 / 1.0°C TC and Linear Input :100mSec/per channel RTD Input: 200mSec/per channel							
Accuracy	±(0.1% of Full Scale +1digit)	Physical						
CJC Error T/C Burnout current RTD Excitation current NMRR CMRR Temp-co Input Impedance	±2.0° C 0.25μA 1 mA (Approx.) > 40dB > 120dB < 100ppm/°C > 1MΩ	Enclosure	Rotary Switc only possible Type-2: Typ Rotary Switc glands possi	ype-1 Enclosure do not have tch and max upto 8 glands le pe-2 Enclosure has On/Off tch and max upto 12 sible				
Max Voltage	20VDC	Weight (without glar	nds) 8208-XP Ty 8208-XP Ty					
Process Value Channel No. Group No. Status Keys	Display & keys 4-digit, 0.56", Red seven segment LED 2-digit, 0.56", Green seven segment LED 1-digit, 0.56", Red seven segment LED 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 Menu, Escape / A/M, Increment, Shift/Down/ ACK	Dimension in mm (HxWxD) Type of Protection Cable Entry Size Cable Entry No Mounting	8208-XP Ty 8208-XP Ty Gas Groups Optional: Gr 3/4" ET 8208-XP Ty 8208-XP Ty Wall Mount Environmel	208-XP Type 1: 220 X 220 X 140 208-XP Type 2: 265 X 265 X 150 Gas Groups IIA & IIB, IP65, Zone: 1, 2 Optional: Group IIC /4" ET 208-XP Type 1: Max 8 glands 208-XP Type 2: Max 12 glands Vall Mount Environmental				
	Output	Operating Temperat						
Relay No of Relays Type	4 Single Change over (C, NO, NC)	Storage Temperature 0-80° C Humidity 30-95% RH non-condensing Table 1: Display Range						
Rating Time Delay Retransmission Output (C Current Voltage Accuracy Selection Communication Output	2A@250VAC / 30VDC 1 to 99 secs Optional) 0/4-20mA @ 500Ω Max 0/1-5V, 0-10V @3KΩ Min 0.25% of FS Max or Min Reading of Channels	Thermocouple	put Type E J K T B R	Range -200 °C to 1000 °C -200 °C to 1200 °C -200 °C to 1370 °C -200 °C to 400 °C 450 °C to 1800 °C 0 to 1750 °C 0 to 1750 °C				
Interface	RS485	RTD	N Pt-100	-200 °C to 1300 °C -199.9 to 850.0° C				
Protocol Baud Rate	Modbus RTU 9600, 19.2K Power Supply	NID	0 - 75mV 0 - 100mV	-177.7 to 830.0 C				
Standard Optional Consumption	85-265VAC @ 50 Hz / 60 Hz, 110-290VDC 18-36VDC 15VA Max	Linear	0.4 - 2V DC 4-20 mA (Ext.100Ω) 0 - 2 VDC 0 - 20mA (Ext.100Ω) 0 - 5V 1 - 5V 0 - 10V	-1999 to 9999				

ORDERING CODE

-10 - 20mV

Model	Ν	o of Input	Eı	nclosure Type		Input Type	Auxilliary Power Supply		No	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	Ν	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	Т			12	12 Glands*	3	1-5 V			
					5	В					4	0-5 V			
					6	R					5	0-10 V			
					7	S									
					8	N									
					9	Pt-100									
					Α	-10 to 20mV									
					В	0-75 mV									
					С	0-100 mV									
					D	0.4-2 V									
					Ε	0-2 V									
					F	0-5 V									
					G	1-5 V		 * Max upto 8 glands only possibl # 12 glands is possible only in Ty 			е				
					Н	0-10 V		" 12 o.a.r.as is possible only in 1)	pc Z	Literosare					