



8208 8 Channel Scanner

Features

- Universal Input with channel specific input type
- Universal Power Supply
- Fast sampling rate with instantaneous relay action
- Levels of configuration and password protection
- All Configuration and Calibration from front panel keypad
- Isolated communication port with Modbus RTU protocol
- Four groups, 4 relays with full mapping and logic flexibility
- Most comprehensive Alarm and Trip logic programming
- Draw-out design for ease of maintenance and replacement

Benefits

- One device handles all input types
- Suitable for wide range of AC/DC Aux supply
- Fast Response protects all types of Equipments and Processes
- Relay mapping and logic programmability for Alarm annunciation and Trip function
- User friendly menu to configure and calibrate
- All configuration, status and calibration parameters available on Modbus
- Retransmission option with Max/Min for PLC/Recorder interface
- Most compact, comprehensive and cost effective

Application

- Motor protection
- Generator monitoring and protection
- As a SCADA RTU
- Electrical Sub-station monitoring
- Water and Waste-water remote monitoring
- Metal and Mining applications
- Machine condition monitoring
- Gas detection
- As a Distributed I/O module for interface with PLC/DCS/DAS
- Monitoring and protection of Pumps, Transformers, Fans, Blowers, etc.

Technical Specifications:

Input:

Channels: 8

| Type | Range |
|----------------------|-----------------|
| E | -200 to 1000 °C |
| J | -200 to 1200 °C |
| K | -200 to 1370 °C |
| T | -200 to 400 °C |
| B | 450 to 1800 °C |
| R | 0 to 1750 °C |
| S | 0 to 1750 °C |
| N | -200 to 1300 °C |
| Pt-100 | -200 to 850 °C |
| -10 to 20 mV | -1999 to 9999 |
| 0 to 75 mV | |
| 0 to 100 mV | |
| 0 to 2 V | |
| 0 to 20mA(Ext.100Ω) | |
| 0.4 to 2 V | |
| 4 to 20 mA(Ext.100Ω) | |
| 0 to 5V | |
| 1 to 5 V | |
| 0 to 10 V | |

ADC Resolution : 17 bits
 Display Resolution : 0.1 / 1.0 °C
 Sampling rate : 10 chs/sec (Pt-100: 5 chs/sec)
 Accuracy
 E, J, K, T, N : 0.1% of FS (Rdg ≥ 0 °C)
 : 0.25% of FS (Rdg < 0 °C)
 B, R, S : 0.25% of FS
 Pt-100, mV, V: 0.1% of FS
 CJC error : ±2.0 °C
 Sensor open : All inputs except 0-5/10 V
 T/C Burnout current : 0.25uA
 RTD excitation current : 1.0 mA max
 NMRR : >40dB
 CMRR : >120dB
 Tempco : <100 ppm
 Input Impedance : >1M
 Max Voltage : 20V dc

Outputs

Relay

No. of Relays : 4
 Type : 1 change over contacts
 Rating : 2A@ 230VAC/30 VDC
 Time delay : 1 to 99 Secs

Re-Transmission (Option)

Field selectable
 Current : 0/4-20mA @500 Max
 or
 Voltage : 0/1-5V, 0-10V @10 KΩ Min
 Accuracy(DAC) : 0.25% FS
 Isolation : With Primary terminals: 1500VAC/1 Min
 : With Secondary terminals: 600VAC/1 Min
 Selection : Max or Min Reading of channels

Communication

Type : RS485
 Protocol : Modbus RTU
 Baud Rate : 9600/19.2k
 Isolation : With Primary terminals : 1500VAC/1 Min
 : With Secondary terminals: 600VAC/1 Min

Display

PV : 0.56" Red 4 digit
 CH No : 0.56" Green 2 digit
 Group No : 0.56" Red 1 digit
 Status : Discrete LEDs

Keys

5 for configuration, calibration and operation

Power supply

Standard : 85-260VAC @ 50Hz
 Optional : 18-36VDC
 Consumption : 15VA Max

Environmental

Operating temperature : 0-55 °C
 Storage temperature : 0-80 °C
 Humidity : 30-95 % RH non-condensing
 Insulation Resistance : >50M @ 500VDC
 Dielectric : 1500VAC@ 50Hz for 1 minute
 Protection : IP20

Physical

Enclosure : Molded ABS
 Weight : 500 grams approx
 Color : Black
 Front Bezel : 96 x 96 mm
 Panel Cutout : 92.5mm x 92.5mm
 Depth behind panel : 110 mm
 Accessories : 2 numbers mounting clamps

ORDERING CODE

| Model | Inputs | | APS | | Option RX | |
|-------|--------|----------|-----|-----------|-----------|--------|
| 8208 | 1 | E | U1 | 85-260VAC | N | None |
| | 2 | J | U2 | 18-36VDC | 1 | 4-20mA |
| | 3 | K | | | 2 | 0-20mA |
| | 4 | T | | | 3 | 1-5V |
| | 5 | B | | | 4 | 0-5V |
| | 6 | R | | | 5 | 0-10V |
| | 7 | S | | | | |
| | 8 | N | | | | |
| | 9 | Pt-100 | | | | |
| | A | -10-20mV | | | | |
| | B | 0-75mV | | | | |
| | C | 0-100mV | | | | |
| | D | 0.4-2V | | | | |
| | E | 0-2V | | | | |
| | F | 0-5V | | | | |
| | G | 1-5V | | | | |
| | H | 0-10V | | | | |

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