



8204

4-Channel Scanner/ DAQ Module

The most compact Multichannel Indicator with Alarms

8204 Scanner offers multi-channel monitoring with advanced functions and simple programming features in very compact 1/8 DIN size for monitoring process values and protection application.

8204 has flexible configuration option for 4 channels accepting universal input and 4 relays to serve various applications. The unit has separate Numeric displays for CH. No. and Process Value. All Configuration and Calibration can be done from front panel keypad.

8204 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. One discrete LED is provided per relay for indication.

8204 has built-in Isolated RS485 serial communication port with Modbus RTU protocol and provides optional analog retransmission output with Max/Min to further interface with PLC/DAS/DCS/SCADA.

Features

- Universal input for each Analog Input
- Compact 1/8 DIN mounting
- Front Panel Programming
- 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
- Retransmission output (Optional)

Applications

- Generator Monitoring and Protection
- 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

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TECHNICAL SPECIFICATIONS

Input Victor Power Supply	TECHNICAL SPECIFICATIONS								
Input Type		Input		Power Supply					
	No of Input	4	Standard	85-265VAC / 110-30	OVDC				
Display Range Refer Table 1 Accuracy 40,1% of F5 ≈ 1 Count 17 bits 18 × 1 Count 17 bits 18 × 1 Count 18 bits 18 × 10 count 1	Input Type								
RTD Excitation current	Accuracy ADC Resolution Display Resolution Sampling Rate CJC Error Sensor Open	Refer Table-1 ±0.1% of FS ± 1 Count 17 bits 0.1 / 1.0°C TC and Linear Input :100mSec/channel RTD Input: 200mSec/channel ±2.0°C All inputs except 0-5VDC / 10VDC	Isolation (Withstanding voltage)						
MMRR		·							
Protection P20 P20	NMRR CMRR Temp-co Input Impedance	> 40dB > 120dB < 100ppm/°C > 1MΩ	Front Bezel (in mm) Panel Cutout (in mm) Depth behind Panel Enclosure	48(H) x 96(W) 45(H) x 92(W) 112 mm ABS Molded	D)				
Process Value 4-digit, 0.56°, Red seven segment LED Channel No 1-digit, 0.56°, Green seven segment LED Accessories Terminal Cable size Accessories 2.5 mm² Accessories	IVIAX VOILAGE		_						
Manual mode status, 2 RED LEDs for Communication Menu/Enter, Escape, Increment, Shift Key/Decrement Menu/Enter, Escape, Increment, Shift Key/Decrement Humidity 30-95% RH non-condensing		4-digit, 0.56", Red seven segment LED 1-digit, 0.56", Green seven segment LED	Terminal Cable size	2.5 mm ² 2 numbers mounting o	clamps				
For Communication Storage Temperature O-80° C Storage Temperature O-80° C Humidity 30-95% RH non-condensing	Ct. 4	,							
Shift Key/Decrement Table 1: Display Range	Status	for Communication		0-80° C					
Relay E -200 °C to 1000 °C No of Relays 4 J -200 °C to 1200 °C To 1200 °C to 1200 °C to 1200 °C to 1200 °C to 1200 °C to 1200 °C to 1370 °C Retransmission Output (Optional) T -200 °C to 1200 °C to 1370 °C T -200 °C to 1370 °C R 0 to 1750 °C Thermocouple B 450 °C to 1800 °C R 0 to 1750 °C C Thermocouple R 0 to 1750 °C C 0 to 1750 °C C C C Thermocouple B 450 °C to 1800 °C C C R 0 to 1750 °C C C C C C Thermocouple B Thermocouple B 450 °C to 1800 °C C C C C To 1750 °C C C C C C Thermocouple B Thermocouple B Thermocouple F R D Thermocouple Thermocouple Thermocouple R D Thermocouple Thermocouple Thermocouple Thermocouple<	Keys				lensing				
Relay E -200 °C to 1000 °C No of Relays 4 J -200 °C to 1200 °C Type Single Change over (C, NO or C, NC) K -200 °C to 1200 °C Rating 2A@230VAC/30VDC T -200 °C to 1370 °C Time Delay 1 to 99 secs B 450 °C to 1800 °C Retransmission Output (Optional) R 0 to 1750 °C Current 0/4-20mA @ 500Ω Max S 0 to 1750 °C Voltage 0/1-5V, 0-10V @3KΩ Min N -200 °C to 1300 °C Accuracy 0.25% FS RTD Pt-100 -199.9 to 850.0° C Selection Max or Min Reading of Channels -10 - 20mV -10 - 20mV Communication Output 0 - 75mV 0 - 100mV Interface RS485 0 - 100mV -1999 to 9999 Protocol Modbus RTU 20 - 2 VDC -2 VDC Baud Rate 9600, 19200 1 - 5V -1 - 5V Correction -10 - 20mA (Ext 100Ω) -1999 to 9999 -10 - 2 VDC -2 VDC -2 VDC -2		Output	Inni	. , .	Panges				
ORDERING CODE	No of Relays Type Rating Time Delay Retransmission Output (Opt Current Voltage Accuracy Selection Communication Output Interface Protocol	Single Change over (C, NO or C, NC) 2A@230VAC/ 30VDC 1 to 99 secs cional) 0/4-20mA @ 500Ω Max 0/1-5V, 0-10V @3KΩ Min 0.25% FS Max or Min Reading of Channels RS485 Modbus RTU	Thermocouple RTD	E J K T B R S N Pt-100 -10 - 20mV 0 - 75mV 0 - 100mV 0.4 - 2V DC 4-20 mA (Ext.100Ω) 0 - 2 VDC 0 - 20mA (Ext 100Ω) 0 - 5V 1 - 5V	-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 -200 °C to 1300 °C -199.9 to 850.0° C				
		ORD	DERING CODE						

OKE ENTRE CODE										
	Model	Model Input Types		Auxilliary Power Supply		Retransmission Output Type				
	8204	1	E	U1	85-265 VAC / 110-300VDC	Ν	None			
		2	J	U2	18-36 VDC	1	4-20mA			
		3	K			2	0-20mA			
		4	Т			3	1-5 V			
		5	В			4	0-5 V			
		6	R			5	0-10 V			
		7	S							
		8	Ν							
		9	Pt-100							
		Α	-10 to 20mV							
		В	0-75 mV							
		С	0-100 mV							
		D	0-2 V							
		Е	0.4-2 V							
		F	0-5 V							
		G	1-5 V							
		Н	0-10 V							