

Features

- Long lasting battery backup for memory
- Cold junction compensation for TC input
- Parallel printer port
- Software calibration
- PC communication supporting MODBUS RTU protocol
- 8 Channel Universal / 16 Channel Dedicated Input
- Individual alarm output for each channel
- 2 digit LED display for channel number,
4 digit LED display for process,
5 digit LED display for engineering unit



Description

Electronet series SC-204 is unique micro-controller based 16 channel dedicated / 8 Channel universal input process scanner. It is in most miniature size with multiple features. SC-204 can accept the inputs like RTD, Thermocouple, mA, Voltage, mV and display its processed value with optional alarm settings and communication port. All operating parameters are programmable through front membrane keypad. Individual LED display available for channel number, process value & engineering unit.

Technical Specifications

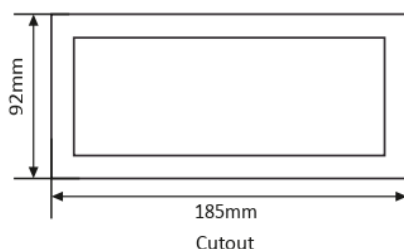
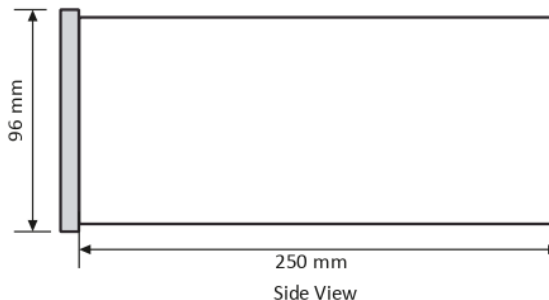
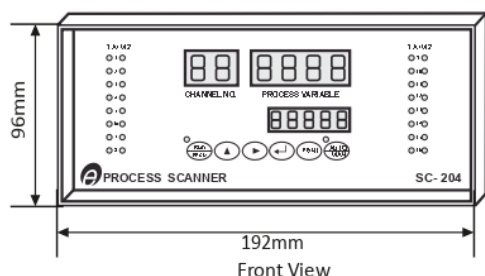
Performance Characteristics	
No. of Inputs	16 Nos.
Input	1) Dedicated (16 Channel)
	a) RTD (PT-100/PT-200) 2 or 3 Wire b) Thermocouple (J / K / R / S/E/B/T Types)
	c) mA (4-20 mA / 0-20 mA) d) Voltage (0-5 V / 1-5 V/0-100mV DC)
	2) Universal (8 Channel)
Display	LED Display for Process Value, Channel Number & Engineering Unit
Range	1) Programmable : -999 to +9999 for mA & Voltage
	2) Fixed : for all types of RTD & Thermocouple
Display Scan Time	Programmable from 1 to 99 seconds
Power Supply	90 - 250V AC, 50 Hz, 24 VDC
Power Consumption	< 10 VA
Accuracy	1) For R, S Type Thermocouple, better than $\pm 0.5\%$ of F. S.
	2) For rest inputs, better than $\pm 0.1\%$ of F. S.
Open Sensor Indication	'OPEN' on Display for RTD & Thermocouple input
Temperature Drift	< 0.01% of F. S. per $^{\circ}\text{C}$ change
Response Time	< 200 mSec per channel
Electronics Enclosure	1) DIN STD. 2) Field Mount IP-65 3) Flameproof (CMRI IIA IIB Certified)
Dimensions	96 (H) x 192 (W) x 250 (D) in mm approx. for DIN STD. Enclosure
Mounting	Flush of the Panel for DIN STD & Wall mount for WP / FLP Enclosure
Weight	4 kg (Approx.)
Ambient Temperature	Temperature -20 to 55 $^{\circ}\text{C}$ / Humidity 5 to 95% non condensing
OPTIONAL	
Individual Alarm Output	Potential free Relay Contacts for High & Low (1 c/o, 1 Amp. @ 230V AC) Per Channel
Common Alarm Output	Potential free Relay contacts - for high & low (1 c/o, 1 Amp @ 230V AC)
Communication Port	RS485 supporting MODBUS RTU Protocol
(In case of optional features, enclosure size may change)	

SC 204

PROCESS SCANNER



Assembly Overview



Ordering Information

Sample Order Code : SC 204-A1-B1-C1-D1-E1

Parameter	Code	Value
A	Electronics Enclosure	A1 DIN Standard
		A2 Field Mount IP 65
		A3 Flameproof (CMRI IIA IIB Certified)
B	Power Supply	B1 90 to 250 VAC
		B2 24V DC
C	Relay or Alarm Output	C1 Common High / Low
		C2 1 Alarm Per Channel
		C3 2 Alarms Per Channel
		CX NA
D	Communication Output 1	D1 RS485 (MODBUS RTU)
		DX NA

Parameter	Code	Value
E	Input 1 to 16	E1 4 to 20mA
		E2 0 to 5V
		E3 RTD
		E4 Thermocouple
		E5 Voltage
		EY Other

Note :

- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.
- This product is meant for laboratory/Process application only and not for custody transfer application.

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