



Advanced Universal Input Scanner and Alarm Device



SCN100

SCN100 devices are 144 x 144 mm in size. They are devices designed to measure temperature, pressure, speed, level, humidity, current, voltage, resistance and other physical units of many process variables in industrial environments up to 40 channels and to monitor these units on a single screen. Up to 20 channels can be independent relay outputs. Process data can be transferred to a scale system with the RS485 module. It is used in Food, Plastic, Iron and Steel, Chemistry, Metallurgy, Cement, Ceramics, Petro-Chemistry, Refineries, Glass and other industries. There is one common alarm and one sensor disconnected relay output. They are ergonomic devices whose compliance with international standards, reliability and ease of use have been ensured at the design stage.

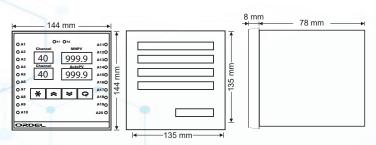
Device Features

2 pcs 4 Digit Numeric Display 2 pcs 2 Digit Numeric Display 22 pcs Led Display 40 Channel Universal Input 1 pcs Analog Output (0/4-20mA.0/2-10V) 20 pcs Relay Output RS485 Modbus RTU 220V AC/DC or 24V AC/DC Supply Voltage

Sensor Disconnected Alarm
Definitions of the Channel Alarm
Common Alarm Assignment of Channels
Simultaneous Automatic and Manual Scanning

Input Types					
Sensor Type	Standard	Min.	Max.		
Type-T (Cu-Const)	IEC60584	-200 °C	300 °C		
Type-U (Cu-Const)	IEC60584	-200 °C	600 °C		
Type-J (Fe-Const)	IEC60584	-200 °C	800 °C		
Type-L (Fe-Const)	IEC60584	-200 °C	900 °C		
Type-K (NiCr-Ni)	IEC60584	-200 °C	1200 °C		
Type-E (Cr-Const)	IEC60584	-200 °C	1200 °C		
Type-N (Nicrosil-Nisil)	IEC60584	0 °C	1200 °C		
Type-S (Pt%10Rh-Pt)	IEC60584	0 °C	1500 °C		
Type-R (Pt%13Rh-Pt)	IEC60584	0 °C	1600 °C		
Type-B (Pt%18Rh-Pt)	IEC60584	0 °C	1800 °C		
Pt-100	DIN 43760	-200 °C	850 °C		
0 / 4-20 mA		0 mA	20 mA		
0 / 2-10 VDC		0 VDC	10 VDC		

Device Dimensions



Panel Cutting Dimensions = 135 ± 0,5 mm x 135 ± 0,5 mm

Technical Specifications 100-240 Vac/dc +10%-15% Power Supply (PS) 24 Vac/dc +10%-20% **Power Consumption** 6W. 10VA Max 40 Channel Reading (Varies according to **Number of Sensor Input** the number of analog input device coding.) Thermocouple = B, E, J, K, L, N, R, S, T, U Resistance Thermometer = Pt-100 **Sensor Input** Current = 0/4-20mA Voltage = 0-50mV, 0/2-10V Transmitter Supply (TX) 24V 1 pcs 0/4-20mA, 0/2-10V (to transmit a selected **Analog Output** (01)channel) 1 pcs relay output for alarm sensor broken off(R1) 1 pcs common upper limit alarm (R2) Max 20 Alarm Relay Output (Each relay can be Relay Output Specifications for analog input separately) (AL) 20 pcs Alarm Relay Outputs (Number of devices varies according to the coding.) Relay Output (R1,R2) = 250VAC 10A Contact Logic Output = 24Vdc 20mA No Load = 10.000.000 Switching **Contact Lifetime** 250V,10A Resistive Load = 1.000.000 Switching 1 pcs RS485 MODBUS RTU Communication Memory 100 Years, 100.000 Renewals Accuracy +/- 0,2% Sampling Time 100 ms Working = -10...+55°C **Environment Temperature** Storage = -20...+65°C Front Panel = IP54 **Protection Class** Trunk = IP20 Width = 144 mm Height = 144 mm **Dimensions** Depth = 86 mm **Panel Cutting Dimensions** 136 x 136 +/- 0,5 mm Weight 900 gr

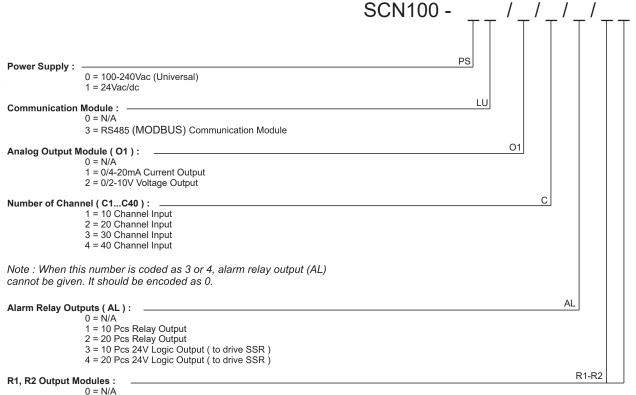
Modular Structure and Connection Diagram

+-	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -
31	32	33	34	35	36	37	38	39	40
		•		•					
+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -
21	22	23	24	25	26	27	28	29	30
+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -	+ -
11	+ - 12	+ - 13	+ - 14	+ - 15	+ - 16	+ - 17	+ - 18	+ - 19	20
-		-		-					-
-		-		-					-
11	12	13	14	15	16	17	18	19	20

01	RS485		
- +	Α	В	С

R2	R1	Pt-100 COM	PS
· —	1		

Product Code



0 = N/A

1 = NO Contact

2 = 24V Logic Output (to drive SSR)

Note: R1 for common alarm output, R2 is used for the sensor break alarm output.

