

- Two universal inputs
- 0 / 1 / 2 / 3 / 4 setpoints corresponding to input 1, input 2
- Isolated 2 x 0/4~20 mA or 0-10 V DC retransmission outputs corresponding to input 1, input 2
- 24 V DC transmitter supply
- RS485 / MODBUS RTU
- 85~265 V AC SMPS
- ONOFF control



SPECIFICATIONS

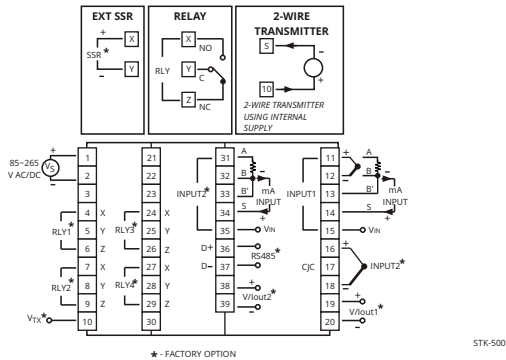
All specifications at ambient of 25 °c, unless specified otherwise

<p>INPUTS No. of inputs Input group 1 (common for both inputs) Thermocouple RTD Voltage Current Input group 2 (common for both inputs) Thermocouple RTD Current Voltage Transmitter supply Range limits Accuracy Cold junction compensation Sensor break protection</p> <p>INDICATION Process variable Setpoint Status indication</p> <p>OUTPUTS No. of relays Relay contact type Relay contact rating SSR drive No. of analog outputs Current output Maximum load for current output Voltage output Load for voltage output</p>	<p>2 (input 1, input 2) B, E, J, K, N, R, S, T Pt100, 3-wire 0~50 mV 0~20 mA, 4~20 mA B, C, D, E, G, J, K, N, R, S, T Pt100, 3-wire, Cu53 0~20 mA, 4~20 mA, Square root (for input 1) 0~50 mV Through DIP selection following voltage inputs are available : 0~1 V, 0~5 V, 0~10 V, 0~10 mV, 0~100 mV, 0~200 mV 22 V nominal, 30 mA max See Table 1 See Table 1 Automatic User programmable</p> <p>Upper : 4 digit, 7 segment 0.8" (20.3 mm) red LED display Lower : 4 digit, 7 segment 0.52" (13.2 mm) green LED display LEDs for relay status LEDs for setpoint indication LEDs for Rx, Tx (RS485)</p> <p>0 / 1 / 2 / 3 / 4 NO-C-NC 8A / 230V AC, resistive 12VDC drive signal for external SSR 0 / 1 / 2 (current or voltage) 4~20 mA / 0~20 mA / 20~4 mA / 20~0 mA isolated from input 500 ohms 0~10 V / user specified >10 Kohms</p>	<p>COMMUNICATION Port Protocol Slave ID</p> <p>ISOLATION Mutual isolation between input, supply, relays, analog output1, analog output2, RS485</p> <p>PROGRAMMABLE PARAMETERS Setpoint Unit Resolution</p> <p>High scale Low scale Digital filter Bias (for process variable) Hysteresis Relay logic</p> <p>Alarm types Alarm acknowledge</p> <p>Setpoint lock Level lock Relay action</p> <p>OTHER Programming Dimensions (in mm) Mounting Panel cutout Supply voltage</p> <p>Power consumption Operating ambient temperature Relative humidity</p>	<p>RS485 Modbus RTU User programmable (1~247)</p> <p>1500 VAC RMS,50hz / 1 minute</p> <p>Full range (See Table 1) °C, °F, EU User selectable 0.01, 0.1 or 1 for linear input, 0.1 or 1 for temperature Full range (See Table 1) Full range (See Table 1) A (minimum) ~ F (maximum) -99.9 ~ 99.9 0~9999 a. Heat b. Cool c. Full scale high alarm d. Full scale low alarm e. Deviation high alarm f. Deviation low alarm g. Inband alarm h. Outband alarm (e. to h. available for SP2, SP3, SP4 only) Self reset or latched and can be disabled at power on Front panel function used to reset relay in alarm condition ON, OFF ON, OFF Reverse / direct</p> <p>Through 3 tactile keys 96(H) x 96(W) x 100(D) Panel mount 92 x 92 mm a) 85~265 V AC, 50/60 Hz b) 12~30 V DC c) 12~55 V DC 4 watts maximum 0~50 °C Below 90%, non condensing</p>
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TABLE 1

SENSOR / INPUT	RANGE LIMITS (°C / EU)		RANGE IN WHICH ACCURACY IS SPECIFIED		TYPICAL ACCURACY AT 30 °C (°C / EU)	WORST CASE ACCURACY (°C / EU)
	LOW SCALE	HIGH SCALE	LOW SCALE	HIGH SCALE		
Input Group 1						
Pt - 6% Rh / Pt - 30% Rh (B)	400	1820	400	1820	± 3	± 5
Chromel / Constantan (E)	-270	850	0	850	± 1	± 3
Iron / Constantan (J)	-210	760	0	760	± 1	± 3
Chromel / Alumel (K)	-270	1372	-50	1200	± 1	± 3
Nicrosil / Nisil (N)	-270	1300	-50	1200	± 1	± 3
Pt / Pt - 13% Rh (R)	0	1760	400	1760	± 2	± 5
Pt / Pt - 10% Rh (S)	0	1760	400	1760	± 2	± 5
Copper / Constantan (T)	-270	400	-200	400	± 1	± 3
Pt100, 3-wire	-200	850	-200	600	± 0.3	± 1.0
Linear (0~50 mV, 0~20 mA, 4~20 mA)	-1999	9999	-1999	9999	± 5 EU	± 20 EU
Input Group 2						
The following inputs are available in Input Group 2 in addition to inputs of Input Group 1.						
Tungsten - 5% Rh / Tungsten - 26% Rh (C)	0	2320	0	2320	± 3	± 5
Tungsten - 3% Rh / Tungsten - 25% Rh (D)	0	2310	0	2310	± 3	± 5
Tungsten / Tungsten - 26% Rh (G)	0	2310	0	2310	± 3	± 5
Cu53	0	180	0	180	± 0.3	± 0.5
Linear (0~10 mV, 0~100 mV, 0~200 mV, 0~1 V, 0~5 V, 0~10 V)	-1999	9999	-1999	9999	± 5 EU	± 20 EU
Linear (4~20 mA) with square root	0	9999	0	9999	± 10 EU	± 40 EU

CONNECTION DIAGRAM

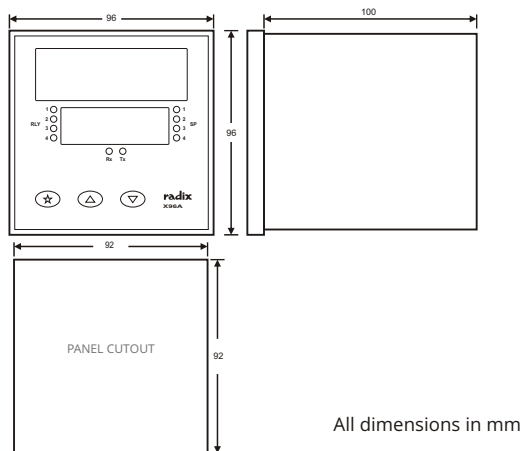


ORDERING INFORMATION

ORDER CODE	
2010	A

A	Configuration			
	No. of inputs	Relay	RS485	4~20 mA output
00	1	0	0	0
01	1	0	0	1
02	1	0	0	2
03	1	0	1	0
04	1	2	0	0
05	1	2	0	1
06	1	4	0	0
07	2	0	0	0
08	2	0	0	2
09	2	2	0	2
10	2	4	0	0
11	2	4	0	2
12	2	4	1	0

DIMENSIONAL DETAILS



Ordering Options

The following ordering options are available on request. Minimum order quantity and/or minimum order value may apply.

Option	Details
1. Analog output	0~10 V DC
2. Supply voltage	12~30 V DC
3. Supply voltage	12~55 V DC
4. Input type	Group 2
5. Output type	SSR (External)
6. High ambient temperature rating for RTD and linear inputs	0~65°C



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OTHER ENQUIRIES

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