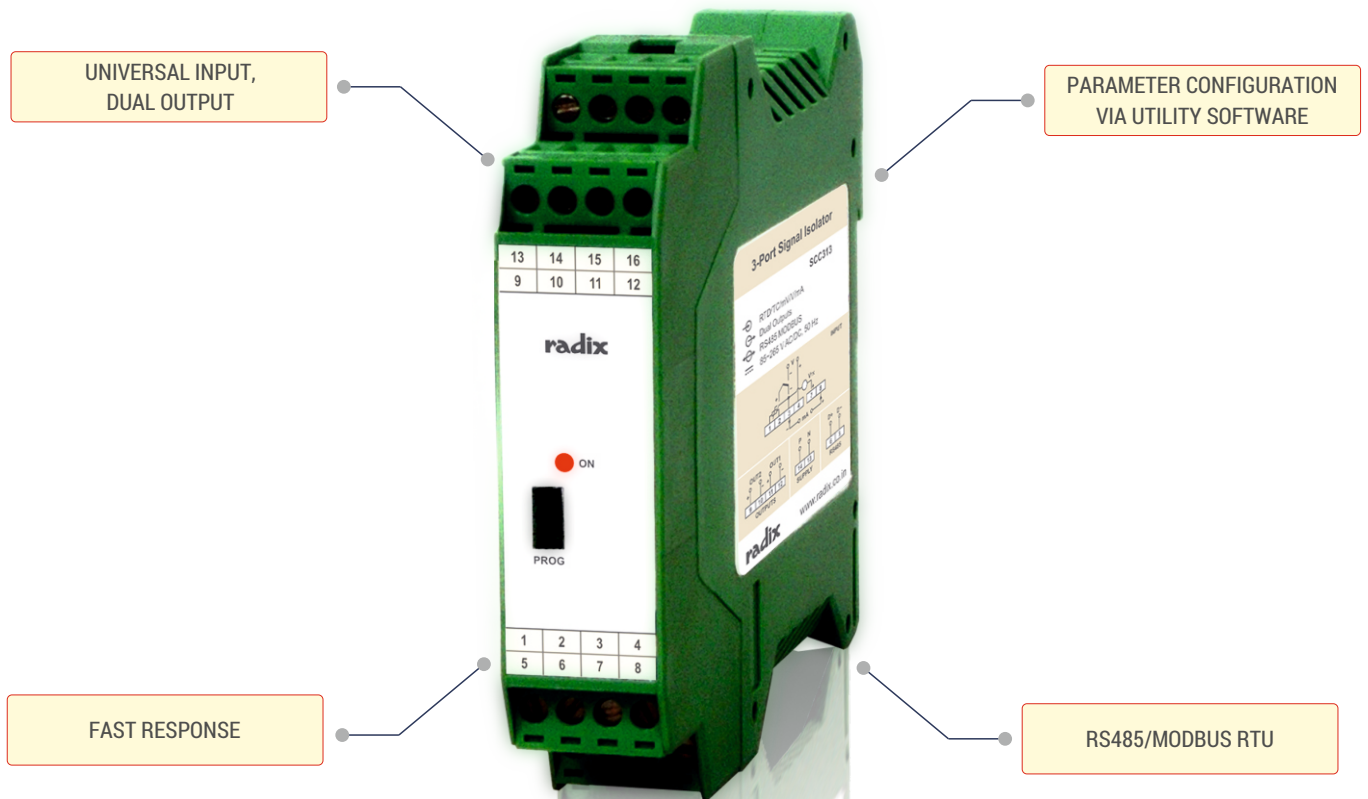


PROGRAMMABLE SIGNAL ISOLATOR DIN RAIL



FEATURES

- Universal input, programmable ranges, etc.
- 1 or 2 0/4~20 mA, 0~1/5/10 V DC outputs
- Input / supply / outputs mutually isolated
- Supply : 85~265 V AC or 18~42 V DC
- Calibration and configuration through PC using DCC501 USB-to-Serial converter
- RS485, MODBUS RTU option
- Fast response output option
- Slim 22.5mm wide Din rail enclosure

PROGRAMMABLE SIGNAL ISOLATOR DIN RAIL

SPECIFICATIONS

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

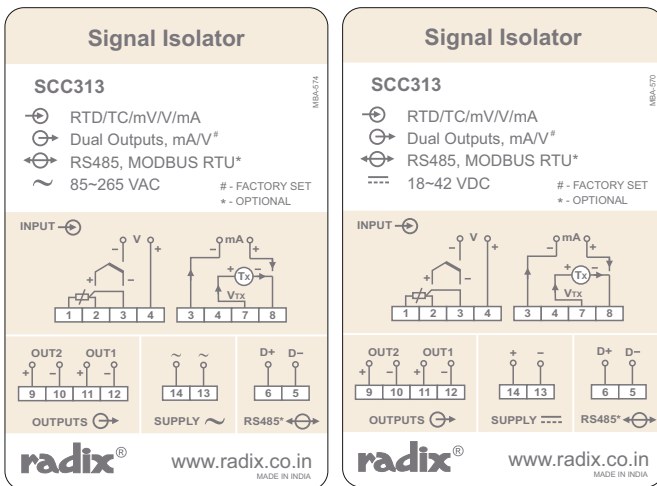
<p>INPUT</p> <p>Input type Thermocouple RTD, 3-wire Linear voltage</p> <p>Linear current Current input Special inputs</p> <p>Transmitter supply Input type selection Range limits</p>	<p>B, E, J, K, N, R, S, T Pt50, Pt100, Pt500, Ni100, Cu53 0~50 mV, 0~10 mV, 0~100 mV, 0~200 mV, 0~1 V, 0~2 V, 0~5 V, 0~10 V, 4~20 mA, 0~20 mA 4~20 mA E.g. Pt1000, 0~6000ohm, linear voltage upto 20VDC 22 V DC, nominal, 30 mA max Through PC using DCC501 See Table 1</p>	<p>COMMUNICATION PORT</p> <p>Port Protocol Slave ID Baud rate</p> <p>ISOLATION Mutual isolation between input, supply, output1 & output2</p> <p>POWER SUPPLY Supply voltage</p>	<p>RS485 Modbus RTU User programmable (1~255) 9600, 14400, 57600, 115200, 28800</p> <p>a) 1500 V AC RMS, 50 hz / 1 minute b) 250 V AC RMS, 50 hz, continuous</p> <p>85~265 V AC, 50/60 hz 18~42 V DC</p>
<p>MONITORING</p> <p>Sensor break protection</p> <p>ADC resolution ADC conversion time</p>	<p>Upscale/Downscale (user programmable) 16 bit 60 ms</p>	<p>ENCLOSURE</p> <p>Material Dimensions (in mm) Mounting</p> <p>Connection, single/stranded wires</p>	<p>Nylon 100(H) x 22.5(W) x 114(D) Snap on for 35 mm DIN rail to DIN 46277 ≤ 2.5 mm², AWG 14</p>
<p>ACCURACY</p> <p>Linearity & calibration Cold junction compensation Temperature effect on accuracy Supply voltage effect Supply ripple effect, 50/60 hz, 5 Vp - p</p>	<p>See Table 1 Automatic (for thermocouples) ± 0.02% of span per °C ± 0.002% of span / V ± 0.01% of span</p>	<p>TEMPERATURE, HUMIDITY</p> <p>Ambient, operation Relative humidity</p>	<p>0 to 60 °C 0 ~ 95%</p>
<p>CONFIGURATION & CALIBRATION</p>	<p>Through PC using DCC501 USB-to-Serial converter</p>	<p>PROGRAMMABLE PARAMETERS</p> <p>Input type Input Hi Input Lo Unit Sensor break</p> <p>Preset out</p> <p>Digital filter Resolution</p>	<p>See 'Input type' For linear inputs For linear inputs °C, °F, °K, EU, none Upscale, Downscale for each output Sensor break output value Upscale/Downscale (User programmable) Provided TC, RTD : 1, 0.1 Linear : 1, 0.1, 0.01, 0.001</p>
<p>RESPONSE TIME</p> <p>Output response time</p>	<p>Standard : < 1 S Fast : <100 ms</p>		
<p>ANALOG OUTPUTS</p> <p>No. of outputs Output type Standard Current Load for current output Voltage</p> <p>Load for voltage output Non - standard</p>	<p>1 or 2</p> <p>0~20 mA, 4~20 mA, 20~4 mA 0~700Ω 0~1 V DC, 0~2 V DC, 0~5 V DC, 0~10 V DC / user specified >10K Please specify Note : For EACH output, one of the Std or a user specified output MUST be specified</p>		

PROGRAMMABLE SIGNAL ISOLATOR DIN RAIL

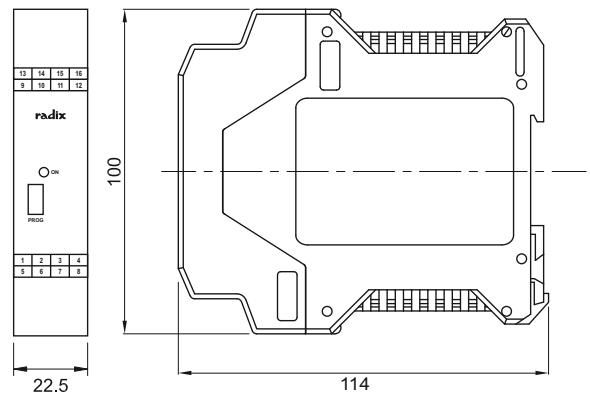
TABLE 1

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		
Pt - 6% Rh / Pt - 30% Rh (B)	400	1820	400	1820	± 3	± 5
Chromel / Constantan (E)	-270	1000	0	1000	± 1	± 3
Iron / Constantan (J)	-210	760	0	760	± 1	± 3
Chromel / Alumel (K)	-200	1372	-50	1200	± 1	± 3
Nicrosil / Nisil (N)	-200	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
Pt50, Pt100, Pt500, Pt1000, 3-wire	-200	850	-200	600	± 0.3	± 2.0
Linear (0~50 mV, 0~20 mA, 4~20 mA)	-25000	25000	-25000	25000	± 20 EU	± 80 EU
Ni100	-60	180	-60	180	± 0.3	± 2.0
Cu53	0	180	0	180	± 0.3	± 0.5
Linear (0~10 mV, 0~100 mV, 0~200 mV, 0~1 V, 0~2 V, 0~5 V, 0~10 V)	-25000	25000	-25000	25000	± 20 EU	± 80 EU

CONNECTION DIAGRAM



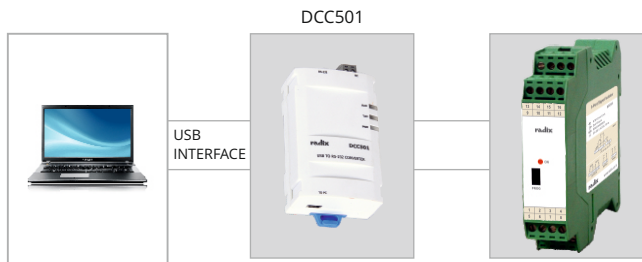
DIMENSIONS mm



PROGRAMMABLE SIGNAL ISOLATOR DIN RAIL

PC CONFIGURATOR FOR SCC313

DCC501 USB-to-Serial Converter can be used to program the parameters. DCC501 must be purchased separately.

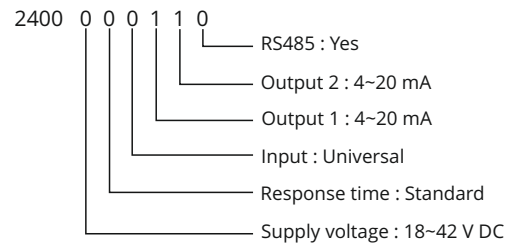


ORDERING INFORMATION

Example	2400	0	0	0	1	1	0	
Product code	2400							
Supply voltage		0						18~42 V DC
		1						85~265 V AC
Response time			0					Standard
			1					Fast
Input				0				Universal
Output 1					0			0~20 mA
					1			4~20 mA
					2			20~4 mA
					3			0~10 V DC
					4			0~5 V DC
					5			0~2 V DC
					6			0~1 V Dc
Output 2					0			0~20 mA
					1			4~20 mA
					2			20~4 mA
					3			0~10 V DC
					4			0~5 V DC
					5			0~2 V DC
					6			0~1 V Dc
RS485						0		Present
						1		Absent

For any other Input, Outputs or Supply Voltage, inquire with us.

EXAMPLE



PC Configurators

Parameter	Model	Order Code
USB-to-Serial Converter	DCC501	2555 0

Note

If range is not specified by user, the instrument will be supplied calibrated as per the quoted/ordered Order Code.

If this range is not suitable, or if customer wishes to change it, he will require the USB-to-Serial Converter DCC501. This is to be ordered separately.

ENQUIRIES

Instruments: sales@radix.co.in
Sensors: sensors@radix.co.in
Gauges: gauges@radix.co.in
Automation: automation@radix.co.in
Level: level@radix.co.in

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