

All dimensions in mm

GENERAL SPECIFICATIONS

AUXILIARY SUPPLY	Nominal : 24V DC/AC / 230V AC/DC (Refer Table 25).	
ISOLATION	Between Input & Output1 / Output2, 2KVAC Between Input & Auxiliary supply, 2KVAC Between Output1 / Output2 & Auxiliary supply, 2KVAC Between Output1 & Output2, 2KVAC	
RATED MAX. INPUT	5% of full scale in selected input range	
INPUT / OUTPUT RANGE SELECTION	Using DIP switches	
OUTPUT SPECIFICATIONS	RATED	ABSOLUTE MAXIMUM RATING
	0-10VDC, 20mA	Short circuit : < 34mA. Open circuit : 18V max.
	0-5VDC, 20mA	
	4-20mA, 500Ω load	Short circuit : < 34mA. Open circuit : 18V max.
	0-20mA, 500Ω load	
OUTPUT PROTECTION	Active current limiting with short circuit current < = 34mA max.	
OUTPUT RIPPLE & NOISE	Less than 1% of Span	
OUTPUT ADJUSTMENT	Zero & Span adjustments on front for output1 & output2 Adjustment of Zero & Span pots will affect all input ranges. Recalibration will be required.	
POWER ON INDICATION	Green LED on front	
OPERATING AMBIENT	0~50°C, 95% RH non-condensing	
STORAGE TEMPERATURE	- 20°C to 85°C	
MOUNTING	35 mm DIN rail	
WEIGHT	250gms	

FOR INPUT : VOLTAGE (DC) , CURRENT (DC) & POTENTIOMETER

INPUT IMPEDANCE	Potentiometer input > 100KΩ Voltage input > 100KΩ Current input : 10Ω
OVERALL ACCURACY	+/- 0.3% of Full Scale from 0 to 50°C ambient temperature
POTENTIOMETER SPECIFICATION	1KΩ to 10KΩ
POTENTIOMETER EXCITATION VOLTAGE	3.3V / 5mA max
RESPONSE TIME	< 25 ms
WARMUP TIME	< 10 sec

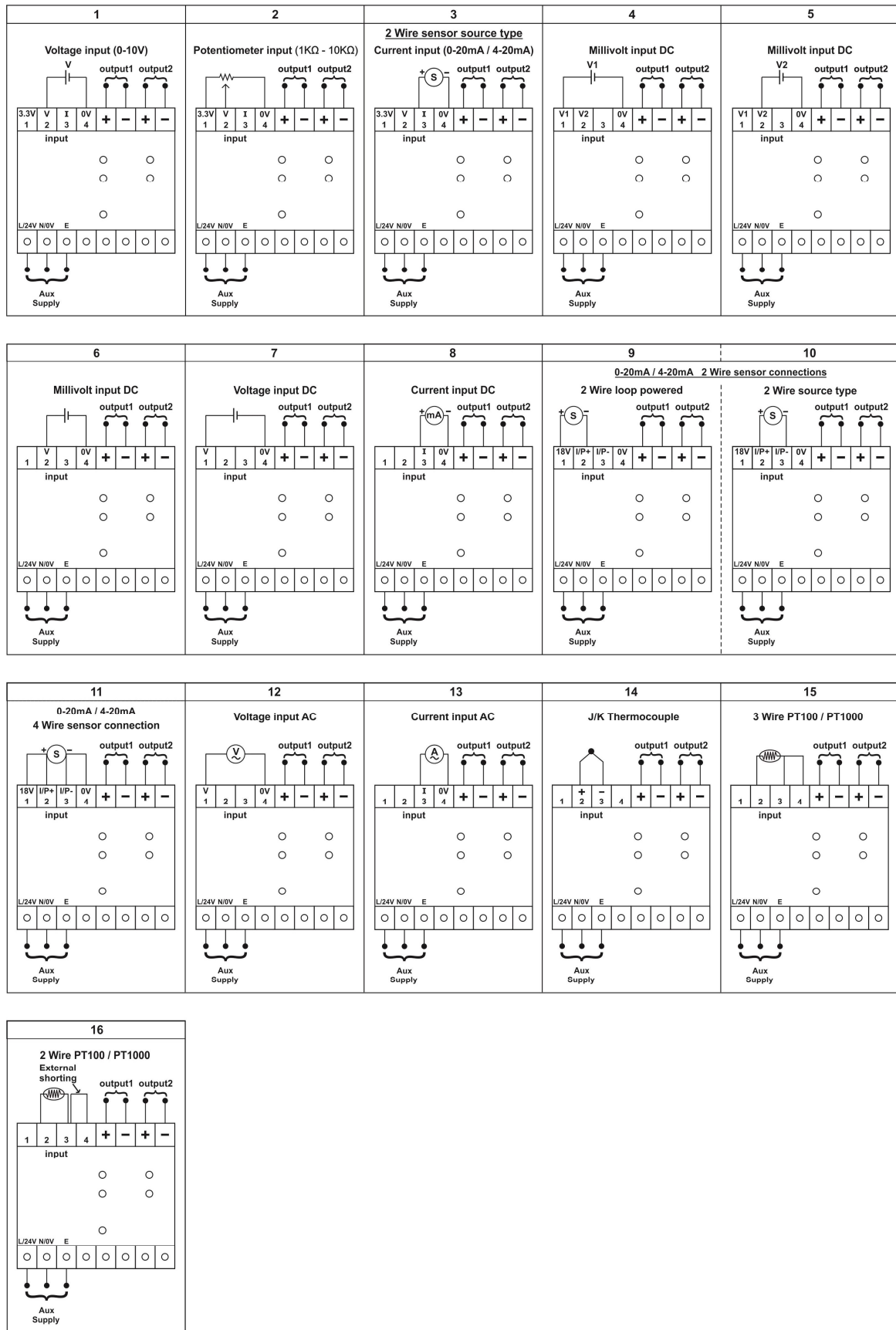
FOR INPUT : THERMOCOUPLE J / K TYPE

OVERALL ACCURACY	+/- 0.5% of Full Scale from 0 to 50°C ambient temperature +/- Cold junction compensation of 1.8°C
COLD JUNCTION COMPENSATION	Provided inside unit , with cold junction temperature measurement accuracy of +/- 1.8°C
INPUT RESOLUTION	Approximately 1-2°C for 0-1200 °C working range
OUTPUT LINEARITY	Output is linearised as per J / K thermocouple mV chart
RESPONSE TIME	< 2.8 sec
WARMUP TIME	< 60 sec

FOR INPUT : PT100 / PT1000

OVERALL ACCURACY	+/- 0.5% of Full Scale from 0 to 50°C ambient temperature
PT100 / PT1000 EXCITATION CURRENT	300μA
INPUT RESOLUTION	Approximately 1-2°C for 0-800 °C working range
OUTPUT LINEARITY	Output is linearised as per PT100 / PT1000 resistance chart
RESPONSE TIME	< 2.8 sec
WARMUP TIME	< 30 sec

CONNECTION DIAGRAM



ORDERING INFORMATION

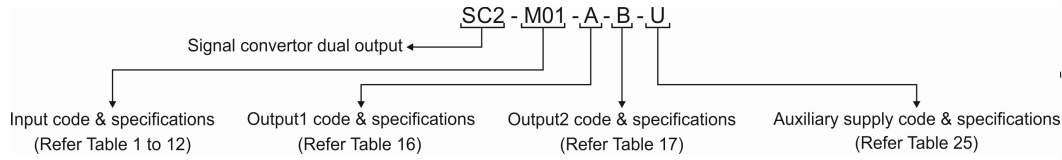


Table 1				
INPUT : VOLTAGE (DC), CURRENT (DC) & POTENTIOMETER				
INPUT CODE	SYMBOL	INPUT RANGE	SWITCH 1,2 SETTINGS	CONNECTION DIAGRAM
M01	$\underline{V}$	0-10V		1
	$\downarrow$	1K Ω -10K Ω		2
	$\underline{I}$	0-20mA (2 Wire Source Type)		3
		4-20mA (2 Wire Source Type)		

Table 2				
INPUT : VOLTAGE (DC)				
INPUT CODE	SYMBOL	INPUT RANGE	SWITCH 1,2 SETTINGS	CONNECTION DIAGRAM
V01 (Under Development)	$\underline{V}$	0-5mV		4
		0-10mV		5
V02 (Under Development)	$\underline{V}$	0-20mV		4
		0-50mV		5
V03	$\underline{V}$	0-60mV		6
		0-75mV		
V11	$\underline{V}$	0-100mV		7
		0-200mV		
		0-300mV		
		0-400mV		
V12	$\underline{V}$	0-500mV		7
		0-600mV		
		0-800mV		
		0-1V		
V13	$\underline{V}$	0-2V		7
		0-2.5V		
		0-5V		
		0-8V		
V14	$\underline{V}$	0-15V		7
		0-20V		
		0-25V		
		0-30V		
V15	$\underline{V}$	0-40V		7
		0-50V		
		0-60V		
		0-70V		

Table 3				
INPUT : VOLTAGE (DC), CURRENT (DC) & POTENTIOMETER				
INPUT CODE	SYMBOL	INPUT RANGE	SWITCH 1,2 SETTINGS	CONNECTION DIAGRAM
V16	$\underline{V}$	0-75V		7
		0-80V		
		0-100V		
		0-120V		
V17	$\underline{V}$	0-150V		7
		0-200V		
		0-250V		
		0-300V		

Table 4				
INPUT : CURRENT (DC)				
INPUT CODE	SYMBOL	INPUT RANGE	SWITCH 1,2 SETTINGS	CONNECTION DIAGRAM
I01	$\underline{I}$	0-20mA (2 Wire / 4 Wire) Supply voltage for sensor : 18V +/- 10%, 25mA max.		For 2 Wire loop powered : 9
		4-20mA (2 Wire / 4 Wire) Supply voltage for sensor : 18V +/- 10%, 25mA max.		For 2 Wire source type : 10 For 4 Wire sensor : 11
I02	$\underline{I}$	0-50mA (2 Wire Source Type)		8
		0-100mA (2 Wire Source Type)		

Table 5				
INPUT : VOLTAGE (AC)				
INPUT CODE	SYMBOL	INPUT RANGE	SWITCH SETTINGS	CONNECTION DIAGRAM
V71	$\underline{V}$	0-24V AC	-	12
V72	$\underline{V}$	0-50V AC	-	
V73	$\underline{V}$	0-75V AC	-	
V74	$\underline{V}$	0-110V AC	-	
V75	$\underline{V}$	0-230V AC	-	

Table 6				
INPUT : CURRENT (AC)				
INPUT CODE	SYMBOL	INPUT RANGE	SWITCH SETTINGS	CONNECTION DIAGRAM
I11	$\underline{I}$	0-1A AC	-	13
I12	$\underline{I}$	0-5A AC	-	

ORDERING INFORMATION

Table 7

INPUT : THERMOCOUPLE K TYPE

INPUT CODE	SYMBOL	INPUT RANGE	SWITCH 1,2 SETTINGS	CONNECTION DIAGRAM
K01		-200 to +200°C		
		-100 to +100°C		
K02		-50 to +100°C		
		-50 to +200°C		
K03		0-100°C		
		0-200°C		
K04		0-300°C		
		0-400°C		
K05		0-500°C		
		0-600°C		
K06		0-700°C		
		0-800°C		
K07		0-900°C		
		0-1000°C		
K08		0-1100°C		
		0-1200°C		

Table 8

INPUT : THERMOCOUPLE J TYPE

INPUT CODE	SYMBOL	INPUT RANGE	SWITCH 1,2 SETTINGS	CONNECTION DIAGRAM
J01		-200 to +200°C		
		-100 to +100°C		
J02		-50 to +100°C		
		-50 to +200°C		
J03		0-100°C		
		0-200°C		
J04		0-300°C		
		0-400°C		
J05		0-500°C		
		0-600°C		
J06		0-700°C		
		0-800°C		
J07		0-900°C		
		0-1000°C		
J08		0-1100°C		
		0-1200°C		

Table 9

INPUT : PT100

INPUT CODE	SYMBOL	INPUT RANGE	SWITCH 1,2 SETTINGS	CONNECTION DIAGRAM
P01		-100 to +100°C		 For 3 Wire sensor : 15 For 2 Wire sensor : 16
		-200 to +200°C		
P02		0-100°C		
		0-200°C		
P03		0-300°C		
		0-400°C		
P04		0-500°C		
		0-600°C		
P05		0-700°C		
		0-800°C		

Table 10

INPUT : PT1000

INPUT CODE	SYMBOL	INPUT RANGE	SWITCH 1,2 SETTINGS	CONNECTION DIAGRAM
P51		-100 to +100°C		 For 3 Wire sensor : 15 For 2 Wire sensor : 16
		-200 to +200°C		
P52		0-100°C		
		0-200°C		
P53		0-300°C		
		0-400°C		
P54		0-500°C		
		0-600°C		
P55		0-700°C		
		0-800°C		

Table 11

INPUT CODE & SPECIFICATIONS

F01 : Reserved for frequency input (under development)

Table 12

INPUT CODE & SPECIFICATIONS

L01 : Reserved for load cell input (under development)

ORDERING INFORMATION

Table 16

OUTPUT-1 CODE	SPECIFICATIONS	RANGE	SWITCH 3 SETTING
A	0-10V / 0-5V, Load : 20mA	0-10V	
		0-5V	
B	4-20mA / 0-20mA, Load : 500Ω	4-20mA	
		0-20mA	

Table 17

OUTPUT-2 CODE	SPECIFICATIONS	RANGE	SWITCH 4 SETTING
A	0-10V / 0-5V, Load : 20mA	0-10V	
		0-5V	
B	4-20mA / 0-20mA, Load : 500Ω	4-20mA	
		0-20mA	

Table 25

AUXILIARY SUPPLY CODE	SPECIFICATIONS
24V	Nominal: 24V AC / DC, 6W / 6VA max, Range: 16 ~ 36VAC/18 ~ 36VDC, Ripple: 1.8V P-P.
U	Nominal: 230V AC / DC, 6W / 6VA max, Range: 90 ~ 270VAC/100 ~ 300VDC.

Note : 1. Input / output resolution: around 5mV at 0-10V & 0-5V input / output, around 10μA at 4-20mA & 0-20mA input / output.
2. For customized input & output ranges contact us.