

SIMULATOR

RTD SIMULATOR

INTRODUCTION

ESD offers a range of simulators (Calibrators) for calibration of temperature indicators, controllers, scanners, transmitters, data loggers etc.

The RTD simulator family is meant for calibration of RTD input instruments. The output from simulator is equivalent to the characteristics of RTD Pt - 100 as per DIN 43760. It facilitates calibration or verification at 10 different points which are often required.



The calibrator is built using precision and highly stable resistors. The unit being very handy can be used on the field very easily.

SPECIFICATIONS

Model	: RTD simulator
Connection	: Three wire system
Calibration points	: Ten
Calibration values	: 0, 25, 50, 100, 150, 200, 250, 300, 350, 400 (other on demand)
DIN standard	: DIN 43760
Type	: Wire wound
Accuracy	: 0.1% of value
Temp. Coefficient	: +/- 10 ppm
Selector switch	: 2 pole 10 way gold plated switch
Relative humidity	: Less than 90 % non condensing

Ambient temperature	: 0 to 55°C
Measuring current	: Less than 1 mA
Accuracy deviation due to	
Temperature change	: +/- 0.002 % /°C, ref at 25°C
Dimensions (in mm)	: 72(L) x 72(W) x 80(H)
Mounting	: Portable
Enclosure	: Mild steel CRCA sheet suitable for IP 55 having size 72 x 72 mm
Front facia	: 72 x 72 mm
Cable	: 1 meter 0.5 mm ² 3 core PVC PVC
Termination	: Screwed type suitable for 2.5mm ² wire
Weight	: 200 grams approximately

Temperature Vs Resistance (To DIN 43760)

°C	W	°C	W	°C	W
-200	18.53	50	119.40	180	168.47
-150	39.65	60	123.24	190	172.16
-100	60.20	70	127.07	200	175.84
- 50	80.25	80	130.89	220	183.17
- 40	84.21	90	134.70	240	190.46
- 30	88.17	100	138.50	260	197.70
- 20	92.13	110	142.28	280	204.88
- 10	96.07	120	146.06	300	212.03
0	100.00	130	149.82	320	219.13
10	103.90	140	153.57	350	229.69
20	107.79	150	157.32	380	240.15
30	111.67	160	161.04	400	247.06
40	115.54	170	164.76	450	264.14

FEATURES

- ✓ Proven trouble free field performance
- ✓ Highly compact and lightweight
- ✓ Highly stable output
- ✓ Three wire system
- ✓ Negligible contact resistance
- ✓ Easy to use

ALSO SELECT ESD ...

- ✓ Pt - 100
- ✓ Thermocouples
- ✓ Thermowells
- ✓ Compensating Cables

BACK END

- ✓ Dual Channel Indicators
- ✓ Supersize Indicators
- ✓ Loop Powered Indicators
- ✓ Portable Indicators
- ✓ Field Mounting Indicators
- ✓ Flameproof Indicators
- ✓ Auto Manual Station

SAME RANGE

FRONT END

- ✓ ON OFF Controllers
- ✓ PI Controllers
- ✓ Process Scanners
- ✓ Automation Panels

"To have a great idea, have a lot of them...."

Thomas Edison

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