Fixed Point RTD or T/C Simulator (TestKit TK 18591)

The Fixed Point RTD or T/C Simulator (TK 18591) is a handy instrument which simulates either RTD or T/C sensor. It has 12 discrete calibration points (CPs) for the calibration of electronic temperature indicators, recorders and controllers. In case of T/C sensors, the simulator also incorporates automatic Cold Junction Compensation (CJC). They are suitable for cost-effective mass calibration & on site quick calibration of RTD & T/C indicators.

Features

- Simulates one RTD or T/C
- Very good accuracy, reliability & longevity
- 12 discrete calibration points (CPs)
- Ultralow temp coefficient (0.002% of rdg/°C)
- RTD simulation in 2-wire or 3-wire mode
- Automatic T/C cold junction compensation (CJC)
- Compact in size and built for toughest environments
- Unique self-check facility ensures reliable operations
- Powered by 2 AAA sized batteries (T/C TestKits only)

Applications

- Simulates RTD (2-wire/3-wire) or T/C (Auto CJC)
- Calibrates temp indicators with RTD or T/C input
- Calibrates temperature controllers and transmitters

Sensor			Available Range Codes (see table below)						
Type	**Name**	**Code**	**A**	**B**	**C**	**D**	**E**	**F**	**G**
RTD[1]	Pt-46	Q	☑		☑				User specified requirements[3]
	Pt-100	P	☑	☑	☑	☑			
	Cu-53	C	☑						
T/C[2]	Type B	B						☑	
	Type E	E			☑				
	Type J	J		☑	☑	☑			
	Type K	K		☑	☑	☑	☑		
	Type N	N		☑	☑	☑	☑		
	Type R	R					☑	☑	
	Type S	S					☑	☑	
	Type T	T		☑					

Range Code	12 Calibration Points (CPs)											
	CP1	**CP2**	**CP3**	**CP4**	**CP5**	**CP6**	**CP7**	**CP8**	**CP9**	**CP10**	**CP11**	**CP12**
A	-50	-25	0	25	50	75	100	125	150	175	200	225
B	-50	-25	0	25	50	100	150	200	250	300	350	400
C	-50	0	50	100	150	200	250	300	350	400	500	600
D	-50	0	50	100	150	200	300	400	500	600	700	800
E	0	50	100	150	200	300	400	500	600	800	1000	1200
F	0	200	400	600	800	1000	1100	1200	1300	1400	1600	1750

[1] RTDs conform to IEC751/DIN43760 standard [2] T/Cs conform IEC584/ITS-90 standard [3] Contact us with for specific requirements

GIPITRONIX Pvt. Ltd.
Vadodara (Gujarat) – 390010 (INDIA)
+91-265-2642854
+91-997-4002836
www.gipitronix.com
contact@gipitronix.com

Technical Specifications $22 \le T_A \le 32°C$; $V_{LOBAT} \le V_s \le 3V$ (T/C TestKit only); 1 year of calibration validity

Accuracy			± 0.05% FS
Temp Coefficient			< 0.002% of rdg / °C
T/C TestKit Only	Battery	Type	2 AAA sized batteries
		Life	72 - 84 Hrs. of continuous use
		Status	Displays battery level using LED glow
	CJ Compensation		Automatic
	CJ Error		1°C for $5 \le T_A \le 55°C$
Storage Temperature			0 to 70°C w/o batteries
Humidity			Less than 90% Rh (Non-condensing)
Operating Temperature			5 to 55°C
Enclosure Size			160(L) x 70(W) x 25(H) mm
Enclosure Finish			Powder coated
Weight			200g w/o batteries

Standard Accessories

Accessories	Included	BS-5(4mm) probes, crocodile clips, leather case, 2 AAA sized dry batteries
	Optional	2 AAA sized Ni-Mh batteries, external battery charger
Documentation	Included	Warranty certificate[1], Calibration certificate[2], User manual, RTD & T/C temp tables
	Optional	NABL Calibration certificate

Ordering Information

Model No.	Sensor Code	Range Code
18591	X	X

Example: Specify 18591PA to order the RTD TestKit to simulate Pt-100 with a range of -50 to 400 °C

[1] Valid for 2 years against mfg defects.
[2] Traceable to NABL, India.

GIPITRONIX Pvt. Ltd.
Vadodara (Gujarat) – 390010 (INDIA)
+91-265-2642854
+91-997-4002836
www.gipitronix.com
contact@gipitronix.com