

# DIGITAL OIL & WINDING TEMPERATURE INDICATOR

MODEL: TC23



Technical specification	Model TC23	
Temperature sensor	RTD (PT-100 DIN 43760)	
Operating temperature	- 20°C to 60°C	
No. of sensor input	One (PT 100 sensor)	
CT secondary current input	1A – 5A (User Selectable)	
Temperature Rise	1°C - 45°C (User Selectable)	
No. of Set-points OTI	Two independent output relays for alarm & trip	
No. of Set-points WTI	Four independent output relays for fan 1, fan 2, alarm & trip	
Range	0 - 150°C (User Selectable)	
Resolution	0.1°C	
Accuracy	± 1% of FSD	

Four-digit seven segment LED's for displaying OTI & WTI

Communication	RS-485 MODBUS RTU (Optical)		
Indications	4 Nos RED LEDs to indicate a. OTI alarm b. OTI Trip c. WTI alarm d. WTI Trip		
indications	4 Nos YELLOW LEDs to indicate  a. WTI fan 1 ON  b. WTI fan 2 ON  c. Controller is in gradient mode  d. Controller is in maximum mode		

Display

## 1 No GREEN LEDs to indicate a. Controller is in program mode

Electrical specifica	tion Model TC23	
Supply voltage	90 - 260V AC/DC	
Current Outputs	Two analog DC o/p for 1 no. each OTI & WTI (4-20mA suitable for 600 ohms burden)	
Contact Rating	5A @ 220V AC / 5A @30V DC resistive load	
Terminals	Screwed caged suitable for one 2.5 SQ.mm wire	
Insulations	sulation resistance will be greater than 100MΩ when 500V. C is applied between each terminal and earth at room temperature. quipment will with stand 2KV rms at 50/60 Hz for 1 min, applied between all erminals shorted together to earth.	
Power consumption	7.5 Watts (Max)	

#### Mechanical specification

Overall Dimensions	205(H) x 265(W) x 130(D) mm
Mounting	Wall mounting with Anti-Vibration pads and M6 screws
Weight	Approx. 2 Kg without packing box.
Enclosure	IP-55

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#### **SOFTWARE**

The 4 No's of Key's are used to change the settings Manually or through RS-485.

- 1. Contacts settings of the following OTI Relay's
  - Set values of OTI Alarm & Trip
- 2. Contacts Setting of the following WTI Relay's
  - Set values of WTI Alarm, Trip, Fan1 & Fan2
- 3. Differential settings of the Relay for the above.
- 4. Winding Temperature Gradient Settings.
  - CT Secondary Current.
  - Winding Temperature Rise.

### Information For Ordering / Enquiring

Model no	TC23
Type Of Instrument	OTI & WTI
Range	0 – 150 °C
<b>Y</b>	20 – 140 °C
	30 – 150 °C
PT100	Simplex
	Duplex
Cannels	OTI 2C
	OTI 4C
	WTI 2C
	WTI 4C
	OTI 2C + WTI 2C
	OTI 2C + WTI 4C
	OTI 3C + WRI 3C