

ELECTRONIC TYPE

MODEL 2220-R2 REMOTE OIL / WINDING TEMPERATURE INDICATORS FOR OIL COOLED TRANSFORMER

APPLICATION : Designed to indicate the Top Oil Temperature / Winding Temperature of the oil-immersed transformers in remote control room. This scheme has 2 Nos of 4-20 mA DC Signal outputs proportional to the temperature range. Signal OUTPUT- 1 is connected to an indicator for indicating temperature at remote and OUTPUT- 2 can be connected to Recorder or Data Acquisition System.

Scheme Consists Of :

1. PT -100 Sensor Simplex or Duplex.
2. Current Converter Unit With Power Supply Unit (CCU with PSU)
3. Remote Indicator.
4. Thermometer Pocket. (Optional)
5. Selector Switch. (Optional)

Specifications :

Sl.	Description
1	PT 100 SENSOR ASSEMBLY
a.	Element : Simplex, 3 wire system / Duplex, 6 Wire System
b.	Tolerance : Class 'B' (IEC 60751)
c.	High Voltage test 500V 50Hz all terminal to body for 1 minute
2	CURRENT CONVERTER UNIT WITH POWER SUPPLY UNIT (CCU with PSU)
a	Signal Input : PT 100 RTD, Simplex 3 wire
b	Auxiliary Supply : 90 – 260V AC/DC
c	Signal Outputs : 2 Nos of 4 – 20mA DC corresponding to temperature range
d	Burden on Output Signal : 600 Ohms maximum including loop Resistance
e	Accuracy of Signal Output : $\pm 1\%$ of F.S.D
g	Casing ABS Din rail Mounting box
h	High Voltage test 2KV 50Hz for Supply and CT Secondary input, 500V 50Hz for signal outputs to earth for 1 minute
3	REMOTE INDICATOR
a	Quad Seven Segment LED Display
b	Auxiliary Supply : 90 - 260V AC/DC
c	Temperature indicator range : 0-150°C (Other ranges on request)
d	Resolution : 0.1°C
e	Degree of protection of enclosure : IP20
f	2.5KV 50/60Hz for 1minute all terminal to ground



PT-100 Sensor Simplex



PT-100 Sensor Duplex



CCU with PSU



Remote Indicator



Selector Switch



Thermometer Pocket

Type Tested For

1. Protection class
CCU with PSU IP40 for housing and IP10 for terminals as per IEC 60529
PT-100 Sensor Simplex & Duplex for IP55 as per IEC 60529
Remote Indicator IP20 as per IEC 60529
2. Cold Test :-50°C as per IEC 60068-2-1
Dry Heat Test: +70°C as per IEC 60068-2-2
3. Vibration Test : Amplitude 0.15mm, frequency 10-55Hz, 1Hr 45mins / X,Y,Z axis as per IEC 60068-2-6

4. EMI / EMC Test:
 - a) Electrostatic Discharge Immunity Test as per IEC61000-4-2
 - b) Electrical Fast Transient Immunity Test as per IEC61000-4-4
 - c) High Energy Surge Immunity Test as per IEC61000-4-5
 - d) Voltage Dips and Interruption Test as per IEC6 61000-4-11

Disclaimer : Precimeasure reserves the right to make any changes in the specification without prior notice.