

## TEHR NTC20-P REMOTE CONTROL UNIT

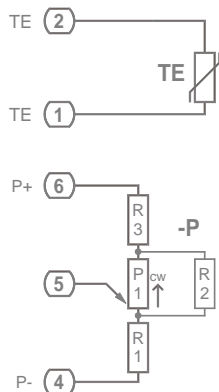
TEHR NTC20-P is made for detecting and controlling room temperatures.

The sensor of the unit is connected to the sensor input of the controller and the setpoint is adjusted by the potentiometer for desired temperature.

Housing is made for surface mounting, but also for a round standard flush mounting box.

The proper potentiometer (1k $\Omega$ ...22k $\Omega$ ), resistors and possible accessories are to be specified on order.

Wiring:



Selection of potentiometer and fitting resistors

| -P standard values | 1k0                      | 4k7                      | 10k                      | 22k                      |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| P1 Potentiometer   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Fitting resistors | (Select minimum R1 = 0 ohm) | Resistors are available from E96 series |
|-------------------|-----------------------------|---|
| R3                | ohm                         |   |
| R2                | ohm                         |   |
| R1                | ohm                         |   |

Temperature / Resistance:

| °C  | NTC 20 / $\Omega$ | °C  | NTC 20 / $\Omega$ |
|-----|-------------------|-----|-------------------|
| 120 | 609               | 25  | 20000             |
| 100 | 1114              | 20  | 25350             |
| 90  | 1541              | 15  | 32346             |
| 80  | 2166              | 10  | 41567             |
| 75  | 2585              | 5   | 53812             |
| 70  | 3099              | 0   | 70203             |
| 65  | 3732              | -5  | 92322             |
| 60  | 4517              | -10 | 122431            |
| 55  | 5494              | -15 | 163777            |
| 50  | 6718              | -20 | 221088            |
| 45  | 8259              | -25 | 301297            |
| 40  | 10211             | -30 | 414698            |
| 35  | 12698             | -40 | 810861            |
| 30  | 15887             | -50 | 1659082           |



### Technical data:

|                      |                         |
|----------------------|-------------------------|
| Sensor               | NTC20 thermistor        |
| Range                | 0...50 °C               |
| Accuracy             | $\pm 0.2$ °C (at 25 °C) |
| Adjusting            | +/-                     |
| Housing              | IP 20                   |
| Dimensions w x h x d | 86 x 85 x 32 mm         |

### Wiring:

|   |                        |
|---|------------------------|
| 1 | sensor                 |
| 2 | sensor                 |
| 3 | not in use             |
| 4 | potentiometer -        |
| 5 | potentiometer (output) |
| 6 | potentiometer +        |

### Ordering guide:

| Model        | Product number | Description   |
|--------------|----------------|---|
| TEHR NTC20-P | 1176230        | room temperature sensor + potentiometer<br>20kohm / 25 °C |

Products fulfill the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

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