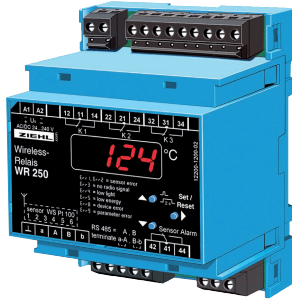


Wireless-Temperature-Relay Type WR250

Potential-free monitoring of temperatures at high-voltage transformers

WR250



The Wireless-Relay WR250 is a receiver for up to 6 Wireless Temperature-Sensors WS Pt100. Up to 6 sensors transmit temperatures by radio. The WR250 displays and evaluates the temperatures.

Application:

- Protection of high-voltage transformers (in primary windings also) from over-temperatures
- where temperatures are to be measured on high potential
- where wireless data-transfer via radio is preferred

Function

- Evaluation of 1-6 WS Pt 100-sensors
- Measuring- and monitoring-range 0...180 °C
- Limits and functions of relay pre-set for monitoring transformers (Fan, Alarm, Trip)
- Sensor-Simulation for testing the settings
- Code-lock against manipulation of settings
- Universal power-supply AC/DC 24-240 V
- Interface RS485 (Modbus) for reading temperature and states of alarms and programming
- Input for external antenna
- Terminals pluggable

Switching functions

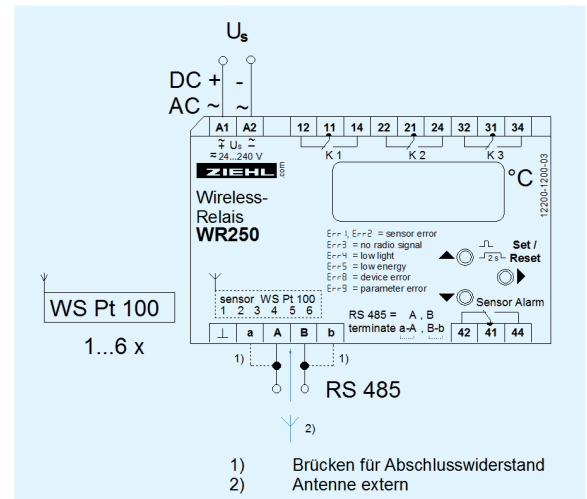
- 3 relays alarm (each 1 change-over contact)
- warmest sensor switches relay
- individually adjustable for relays K1-K3
 - Hysteresis
 - Delay-times for switching and switching back
 - operating- or closed current mode
 - cyclic check of function (e.g. K1 for fan)
- Relay K4 for sensor error alarm

Order-number:

WR250 T224350
Antenna with magnet foot (Option) 101100

Displays

- 3 digit 7-segment-display for temperatures, alarms and parameters
- Resolution 1 °C
- Display/Storing of min- and max-temperatures
- 4 LEDs for state of relays
- 6 LEDs for states of wirelessensors



Technical Data

Rated Supply Voltage U_s

AC/DC 24-240V, AC 20-264 V, DC 20,4-297 V, <5VA

Sensor-Input

Receiver for 1-6 wirelessensors WS Pt 100

Measuring range
Tolerance

0...180 °C
± 4 K (Wirelessensor Pt 100)

Relay-output

Typ 2 see "general technical informations"
4 x 1 changeover-contact (CO)

Test conditions
Rated ambient temperature range

see "general technical informations"
-20...+65°C

Dimensions (h x w x d)
Protection housing / terminals
Weight
Attachment

Design V4: 90x 70x 58 [mm], mounting height 55 mm
IP 30 / IP 20
approx. 190 g
DIN-rail 35 mm or screws M4