

## temperature measurement

### resistance thermometer WTR 580

#### features

##### temperature sensor

- resistance thermometer as cable sensor
- sensor diameter, sensor length and cable length selectable
- straight thermowell without process connection
- adaptable with compression fittings and thermowells

##### transmitter and display head

- plastic housing with display free programmable in rotatable head
- input PT100 and thermocouple
- 4 ... 20mA output and 2 switching outputs PNP
- display can be mirror
- comprehensive setting
- already preset upon request



WTR580-50-6-A-6-02S-1A3-VES-HW

#### technical specifications temperature sensor

- protective fitting made of stainless steel 1.4571 (V4A)
- connection cable PVC, PUR, silicone, teflon or GGVA
- temperature range: the medium -50 ° C to +400 ° C (depending on cable material, extended ranges on request)
- PT100 class A

#### technical specifications transmitter and display head FG200T

input	PT100 or thermocouple (programmable)
display range	-9999...+9999
digit height	8,5mm
display	red 7-segment LED display 4 digits rotatable about 330 °, display mirror-imaged
damping	0,0...999,9s adjustable
resolution	16 Bit
accuracy	+/-0,2% of measuring range +/- 1 digit
setting	wide range of options such as display scale, display area, decimal point, units, TAG number, etc.
switching outputs	2 PNP, maximum load for each 200mA galvanically isolated from the measuring amplifier
display switching point	per 1 x red LED
setting	separated switching point and hysteresis adjustable with 3 buttons on the unit
power supply	12...40VDC, HART-current loop
temperature range	working range -40...+85°C storage -40°C...100°C
electrical connection	M12-connector 5-pole
material	housing body PTB GF30 display shell: polycarbonate
weight	approx 70g without probe
mounting position	any
protection	min. IP65, depending on the connection cable also higher

#### application areas

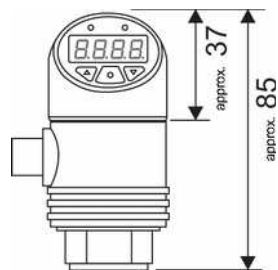
- temperature measurement in mechanical and plant engineering
- temperature measurement, monitoring in heating circuits
- temperature measurement, monitoring in refrigeration circuits
- temperature measurement in heating, air conditioning and ventilation systems
- simple 2-point control in the field

## temperature measurement

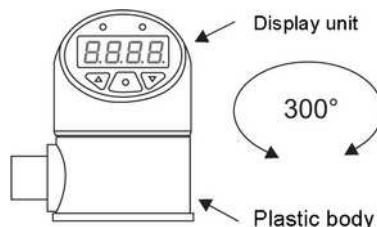
resistance thermometer WTR 580

dimensions

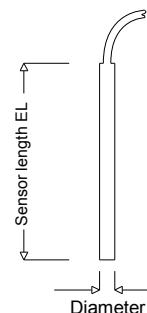
transmitter/display head



rotate display head



resistance thermometer



order-code WTR 580...

order-example: WTR580-50-6-A-02S-1A3-VES-HW

connection head

-50 transmitter and display head, free programmable type FG200T

sensor diameter

-4 sensor diameter 4 mm  
 -5 sensor diameter 5 mm  
 -6 sensor diameter 6 mm  
 -8 sensor diameter 8mm (length only 50mm possible)  
 -9 sensor diameter 9 mm

sensor length

-X sensor length 20 mm  
 -Y sensor length 30 mm  
 -A sensor length 50 mm  
 -B sensor length 100 mm  
 -C sensor length 150 mm  
 -D sensor length 200 mm  
 -K sensor length on customer requirements (please specify length)

cable length and material

-00PVC specify cable length (e. g. 02 = 2 m) / m, cable material PVC  
 -00PUR specify cable length (e. g. 02 = 2 m) / m, cable material PUR  
 -00S specify cable length (e. g. 02 = 2 m) / m, cable material silicone  
 -00T specify cable length (e. g. 02 = 2 m) / m, cable material teflon  
 -00GGVA specify cable length (e. g. 02 = 2 m) / m, cable material fibre glass with VA-jacket

sensor type and tolerance

-1A3 1xPT100 3-wire class A  
 -2A3 2xPT100 3-wire class A  
 -KX sensor types or tolerances on customer request

connecting sensor to transmitter/display head

-VES cable gland, sensor securely connected  
 -M12 M12 plug  
 -KK connection on customer requirements

optional (multiple responses possible)

- HT high temperature version up to + 400 ° C  
 (Attention, only cable material GGVA use)  
 - HW bracket for wall mounting of the head