

temperature measurement

resistance thermometer YVT 742

features

temperature sensor

- standard resistance thermometer without neck tube
- temperature resistance PT100 directly constructed in protective fitting
- various process connections and diameters available

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



YVT742-50-B-6-C-1A

technical specifications temperature sensor

- protective fitting made of stainless steel 1.4571
- diameter 6x1mm or 9x1mm, other diameters on request
- process connection G1 / 4", G1 / 2" A, others on request
- temperature range: the medium -50 ° C to +200 ° C
- PT100 class A
- short response time

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

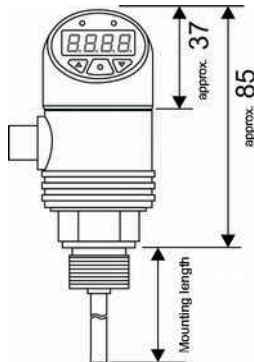
- temperature measurement in mechanical and plant engineering
- temperature measurement, monitoring in heating circuits
- temperature measurement, monitoring in refrigeration circuits
- temperature measurement in heating, air conditioning and ventilation systems
- simple 2-point control in the field

temperature measurement

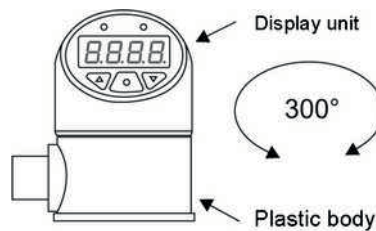
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dimensions

transmitter/display head



rotate display head



order-code YVT 742...

order example: YVT742-50-X-6-C-1A (0-100 °C)

connection head

-50 transmitter and display head, free programmable type FG200T

mounting length

- Y 20 mm mounting length (only possible with 6mm diameter and process connection 1/4 ")
- X 30 mm mounting length (only possible with 6mm diameter and process connection 1/4 ")
- A 50 mm mounting length
- B 100 mm mounting length
- C 150 mm mounting length
- D 200 mm mounting length
- E 250 mm mounting length
- F 300 mm mounting length
- G 350 mm mounting length
- H 400 mm mounting length
- K mounting length on customer request (please specify length)

sensor diameter

- 6 diameter 6mm
- 9 diameter 9mm

process connection

- C G1/4" thread
- D G1/2" thread

sensor type, tolerance, output

- 1A 1xPT100 class A, output 4...20mA, 2 switching outputs, display
- KX sensor types or tolerances on customer request