

temperature measurement

resistance thermometer WTR 110

features

- resistance thermometer with neck tube, with screw in thread
- with process connection thread
- protective fitting on DIN 43 763
- protective fitting screwed with connection head
- available with several connection heads on DIN
- exchangeable measuring elements with ceramic socket or measuring transducer
- specials on request

technical specifications

- protective fitting of V4A 1.4571
 - diameter of protective fitting 9 x 1 mm, other diameter on request
 - length of neck tube 120mm, other lengths on request
 - process connecting thread G 1/2"A
 - standard temperature of the process: -50°C...+400°C
-50°C...+650°C (HT-design)
-50°C...+850°C (HTT-design)
- (other temperature ranges on request)

product benefits

With our WTR 110 you have a device for temperature measurement in liquid and vapour mediums. The integrated neck tube provides decoupling from the process temperature, so that the sensor can be used reliably even at high temperatures. Due to the simple exchange of the measuring element, this sensor is also ideally suited for use in closed processes. High-quality materials give this sensor a very long service life.



WTR 110-5-B-1A3-KMU-HT



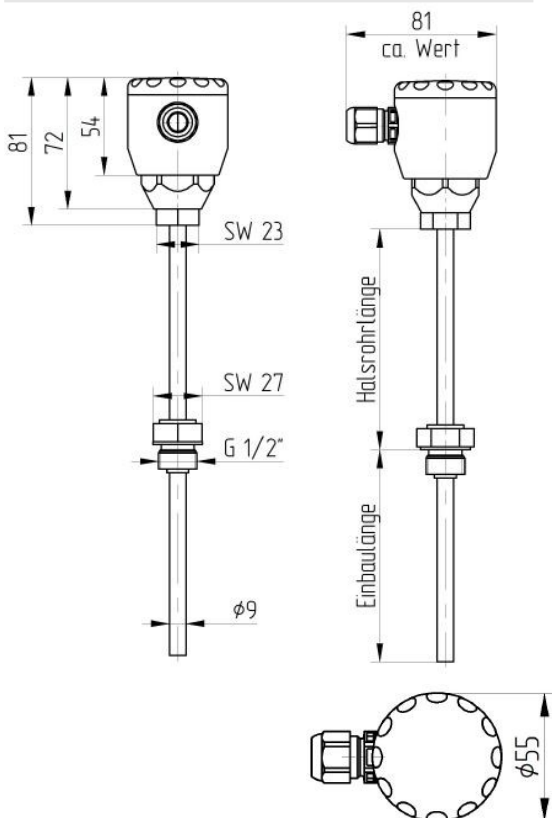
WTR 110-1-B-1A3-KMU-HT



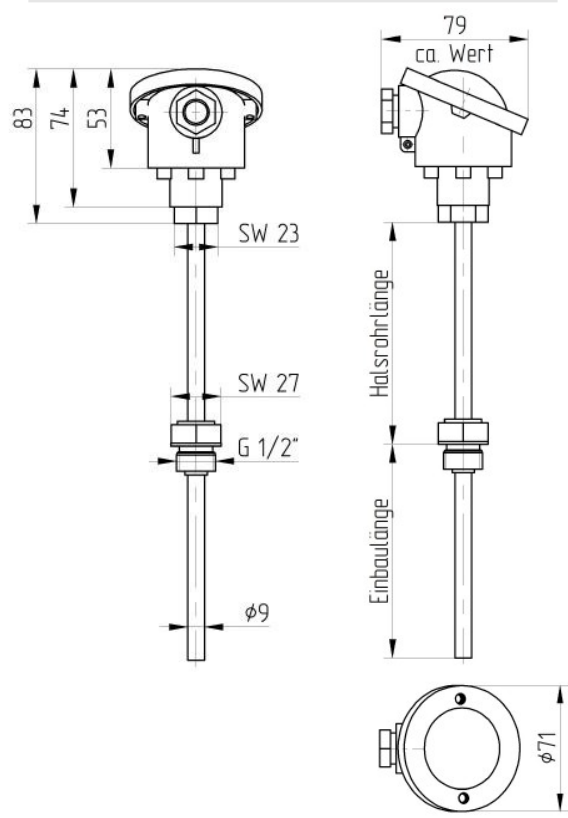
exchangeable measuring element

technical drawing

stainless steel head



aluminiumhead



temperature measurement

order-code WTR 110...

order example: WTR 110-5-A-1A3-KMU (0-100 °C)

connection heads

-1	aluminiumhead, standard, with screwing, protection class IP65
-2	aluminiumhead with flap lid, with screwing, protection class IP65
-2W	aluminiumhead with flap lid, with screw connection, protection class IP65 with window
-3	aluminiumhead with flap lid and snap closing, with screwing, protection class IP54
-4	aluminiumhead with high flap lid, with screwing, protection class IP65
-5	stainless steel head standard with screw cap, with screwing, protection class IP69K
-6	stainless steel head standard with screw cap, with M12-plug, protection class IP69K
-15	stainless steel head hightened design with screwing
-16	stainless steel head hightened design with M125-plug

mounting length (ML), measuring element length (MEL)

-A	50 mm mounting length	(MEL = 205mm)
-B	100 mm mounting length	(MEL = 255mm)
-C	160 mm mounting length	(MEL = 315mm)
-D	200 mm mounting length	(MEL = 355mm)
-E	250 mm mounting length	(MEL = 405mm)
-F	300 mm mounting length	(MEL = 455mm)
-G	350 mm mounting length	(MEL = 505mm)
-H	400 mm mounting length	(MEL = 555mm)
-K	special length according to customer's wish	

optional (not specified neck tube length standard 120mm)

/HR 30	neck tube length 30mm
/HR 60	neck tube length 60mm
/HR 80	neck tube length 80mm

optional (not specified diameter 9mm)

/6x1	diameter 6mm, wall strength 1mm
/10x1	diameter 10mm, wall strength 1mm
/11x2	diameter 11mm, wall strength 2mm
/16x4	diameter 16mm, wall strength 4mm

type of sensor and tolerance

-1A2	1xPT100 class A 2-wire
-1A3	1xPT100 class A 3-wire
-1A4	1xPT100 class A 4-wire
-2A2	2xPT100 class A 2-wire
-2A3	2xPT100 class A 3-wire
-1A2/PT1000	1xPT1000 class A 2-wire
-2A2/PT1000	2xPT1000 class A 2-wire
-KX	other types of sensor and tolerance on request

optional (several combinations possible)

-KMU	with programmable measuring transducer (temperature range on request on preadjustment please specify)
-2KMU	with 2 programmable measuring transducers
-KMUS	with head transmitter output 0...10 VDC
-DMU	OLED display in the viewing window incl. measuring transmitter 4...20 mA configurable via software only with the aluminiumhead "2W"
-MME	coat measuring element, vibration resistant
-PS	perforated protection fitting (air sensor)
-HT	high temperature design up to +650°C
-HTT	high temperature design up to +850°C

accessories

welding sleeves

-99-000421	GEM 150, stainless steel weld-in sleeve, G1/2" inner thread, outer diameter 26mm, length sleeve 33mm
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M12-connection wires

-101090	connection cable M12 angled, 4-pole, 5m PVC cable, grey
-101087	connection cable M12 straight, 4-pole, 5m PVC cable, grey