

# temperature measurement

## resistance thermometer WTR 420

### features

- resistance thermometer without neck tube
- short reaction time without reduced measuring point
- temperature resistance PT100 directly constructed in protective fitting
- electrical connection with M12-plug or ISO 4400 (connection see accessories)
- optional with programmable measuring transducer (same program kit like at KMU100), output 4-20mA 2-wire
- specials on request

### technical specifications

- protective fitting made of stainless steel V4A 1.4404 (316L) resp. V4A 1.4571
- diameter 6 x 1 mm, other diameters on request
- process connection thread G 1/2" A
- temperature ranges: -50 °C to +150 °C (extended ranges on request)
- power supply at option measuring transducer 10...35VDC

### product benefits

- For recording temperatures with optimum use of space in liquid and vapor mediums



WTR 420-9-A-1A-PMU



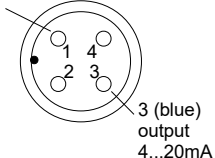
WTR 420-9-A-1A



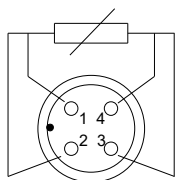
WTR 420-10-...

### pin assignment

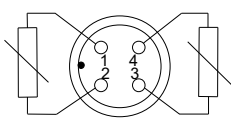
1 (brown)  
+ voltage  
10...35VDC



M12 plug with PMU

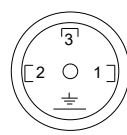


M12 plug  
PT100 and PT 1000



M12 plug  
2x PT100 or 2x PT1000

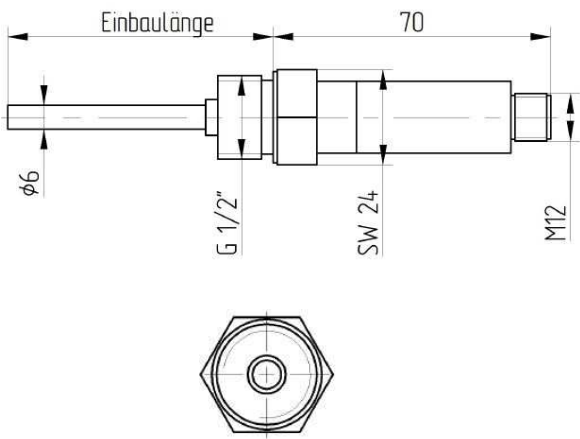
1 (brown)  
2 (white)  
3 (blue)  
4 (black)



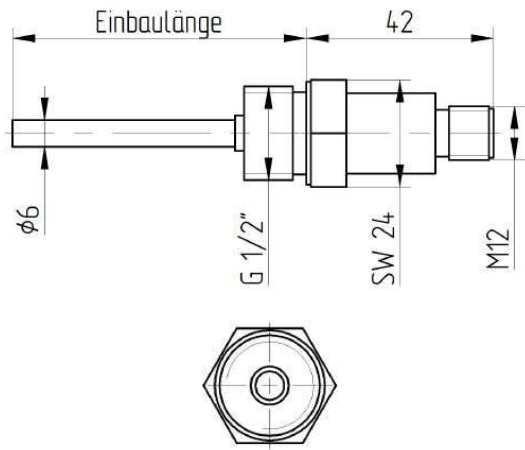
ISO 4400 plug  
PT100 and PT1000

### technical drawing

#### WTR 420 mit PMU



#### WTR 420



## temperature measurement

order-code WTR 420...

order example: WTR 420-9-A-1A-PMU (0-100 °C)

### kind of connection

-9 compact construction, directly with M12-plug, protection class IP69K  
 -10 compact construction, ISO 4400 plug, protection class IP65

### mounting length

-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  
 -K mounting length on customer's wish (please specify length)

### type of sensor and tolerance

-1A 1xPT100 class A  
 -1A/PT1000 1xPT1000 class A  
 -KX other types of sensor and tolerance on customer's request

### tapered measuring point

-V0 (without description) without taper  
 -V3 tapered to 3 mm  
 -V4 tapered to 4 mm

### optional

-PMU with programmable measuring transducer (temperature ranges on request on preadjustment please specify)  
 -SPMU with programmable measuring transducer, pin configuration on customer's request

### accessories

#### welding sleeves

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

#### 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

**Other lengths available on request.**

**For more accessories, see accessories data sheet.**