

## temperature measurement

### resistance thermometer WTR 490

#### features

- modular resistance thermometer for food industry
- medium tangent, measurement flush version
- adaptable with sleeve socket and process connections (see accessories)
- process connection thread G1/2"
- short reaction time without reduced measuring point
- temperature resistance PT100 directly constructed in protective fitting
- electrical connection with M12-plug (connections see accessories)
- optional with programmable measuring transducer (same program kit like at KMU100), output 4-20mA 2-wire
- specials on request

#### technical specifications

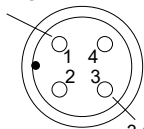
- protective fitting made of stainless steel V4A 1.4404 (316L) resp. V4A 1.4571
- temperature range: -50 °C to +150 °C (extended ranges on request)
- power supply at option measuring transducer 10...35VDC
- tightening torque max. 10-15 Nm
- tighten the sensor only at the wrench size (SW) 22

#### product benefits

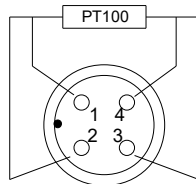
The WTR 490 is a temperature sensor for the food industry in very compact design. The sensor has a very metallic sealing cone below the connection thread. Due to the modular process connection system it can be equipped in aseptic welding sleeves as well as with different standardized process connections. It is flush with the process. This makes it the ideal probe for measuring in contact with the medium in the process, but where the probe must not enter the process (use of agitators or similar). High-quality materials give this sensor additionally a very high longevity.

#### pin assignment

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



M12 plug with PMU

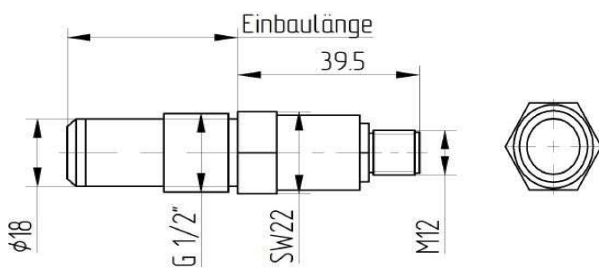


M12 plug (only PT100)

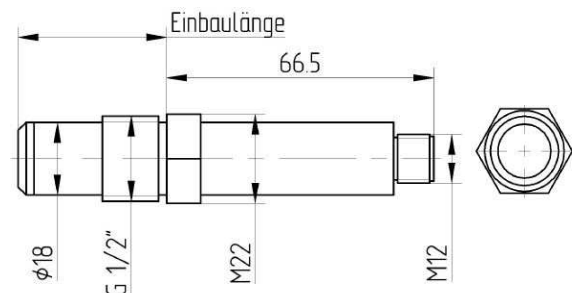
1 (brown)  
2 (white)  
3 (blue)  
4 (black)

#### technical drawing

##### WTR 490



##### WTR 490 with PMU



## temperature measurement

order-code WTR 490...

order example: WTR 490-9-Z-1A-PMU (0-100 °C)

### kind of connection

-9 compact construction, directly with M12 plug, protection class IP69K

### mounting type

-Z flush version

### type of sensor and tolerance

-1A 1xPT100 classe A  
 -KX other types of sensor and tolerance on customer's request

### optional

-PMU with programmable measuring transducer (temperature ranges on request on preadjustment please specify)

### accessories

#### welding sleeves

-99-000191 KEM 150, welding sleeve, bullet, for G1/2" sealing system, diameter 35m,  
 hygienic process adaption  
 -99-000193 ZEM 150, welding sleeve, cylinder, for G1/2" sealing system, diameter 30mm,  
 hygienic process adaptation

#### 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.**