

## temperature measurement

### resistance thermometer WTR 495

#### features

- modular resistance thermometer for food industry
- 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 area

#### product benefits

The WTR 495 is a temperature sensor for the food industry in very compact design. It impresses by its food safe as well as conical or spherical measuring tip, which is aseptically adapted by means of the welding sleeve (ZEM 150 or KEM 150). The additional PEEK ring (temperature decoupling) on the measuring tip counteracts falsifying temperature influences of container walls or container environments. Thanks to its design, the sensor is ideally suited for applications in tanks or containers with agitators or similar.



WTR 495-9-XR...-1A-PMU



WTR 495-9-XR...-1A



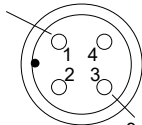
WTR 495-9-XS...-1A-PMU

picture will follow shortly

WTR 495-9-XS...-1A

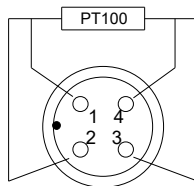
#### pin assignment

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



3 (blue)  
output 4...20mA

M12 plug with PMU



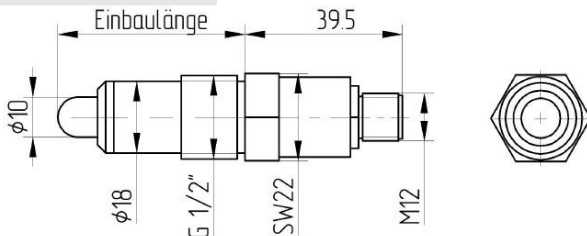
1 (brown)  
2 (white)  
3 (blue)  
4 (black)

M12 plug (only PT100)

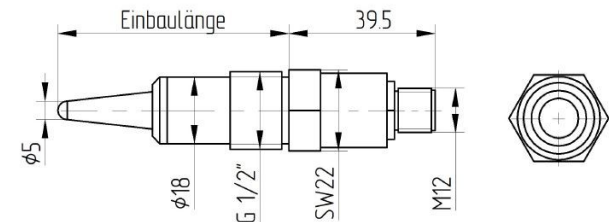
#### technical drawing

#### spherical measuring tip (XR)

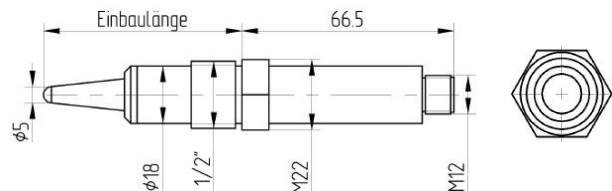
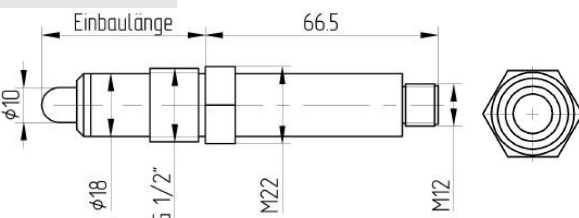
##### without PMU



#### conical measuring tip (XS)



##### with PMU



version 2.1.1

## temperature measurement

order-code WTR 495...

order example: WTR 495-9-XS-1A-PMU (0-100 °C)

### kind of connection

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

### mounting type

-XR spherical measuring point, thermal decoupled  
-XS tapered measuring point, thermal decoupled

### 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