

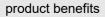
## resistance thermometer WTR 450

# features

- modular resistance thermometer for food industry
- adaptable with sleev socket and process connection thread (see access - process connectiion thread G1/26
- 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 programm kit like at KMU100), output 4-20mA 2-wire - specials on request

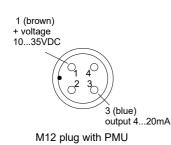
### technical specifications

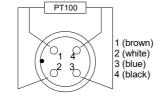
- protective fitting made of stainless steel V4A 1.4404 (316L) resp. V4A 1.4571
- diameter 6 x 1 mm, other diameters on request
- temperature range: -50 °C to +150 °C
- (extended ranges on request)
- power supply at option measuring transducer 10...35VDC



With our compact WTR 450 you are able to measure temperatures in the food industry under ideal space utilization. The sensor has a sealing cone below the connection thread, which is aseptically adapted with the help of our welding sleeve (ZEM 150 or KEM 150). You will benefit from the very high quality and durability of the sensor, which is achieved by using high-quality materials. Even in rough industrial environments this sensor can be used without any problems.

pin assignment

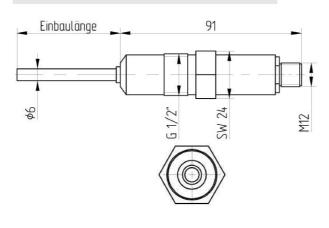




M12 plug (only PT100)

technical drawing

# WTR 450



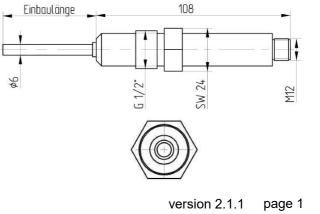
WTR 450 with PMU



Alle

WTR 450-9-A-1A-PMU

WTR 450-9-A-1A



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Kind of connection     Find of connection     read   compact construction, directly with M12-plug, protection class IP69K     mounting length   50 mm mounting length     ***   *** </th <th>order-code WTR 450</th> <th>. <u>order example:</u> WTR 450-9-A-1A-PMU (0-100 °C)</th>	order-code WTR 450	. <u>order example:</u> WTR 450-9-A-1A-PMU (0-100 °C)
A   50 mm mounting length     100 mm mounting length   150 mm mounting length     200 mm mounting length   200 mm mounting length     4   300 mm mounting length     50 mm mounting length   200 mm mounting length     4   abread to stomer's wish (please specify length)     tppeed sensor and tolerance on customer's request     tapered measuring port     -00 (without description   without taper     -3   abread to 3 mm     -44   appred to 4 mm     eptional   tapered to 3 mm     -PMU   with programmable measuring transducer (temperature ranges on request on preadjustment please specify)     accessories   specify     -99-000191   KEM 150, welding sleeve, cylinder, for G1/2" sealing system, diameter 35m, hyglenic process adaption     -99-000193   ZEM 150, welding sleeve, cylinder, for G1/2" sealing system, diameter 35m, hyglenic process adaption     -0101080   connection cable M12 angled, 4-pole, 5m PVC cable, grey     -1010	kind of connection	
A   50 mm mounting length 100 mm mounting length 150 mm mounting length 150 mm mounting length 250 mm mounting length 250 mm mounting length 250 mm mounting length 300 mm mounting length 300 mm mounting length 300 mm mounting length 4     F   300 mm mounting length 4     F   4     F   4     F   4     F   4     F   4     F   4     F   4     F   4     F   4     F   4     F   4     F   4     F   4	-9	compact construction, directly with M12-plug, protection class IP69K
-B   100 mm mounting length     -C   200 mm mounting length     -D   200 mm mounting length     -E   200 mm mounting length     -E   200 mm mounting length     -F   300 mm mounting length     -K   300 mm mounting length     -K   about mounting length     -KX   about mounting length     -KX   about mounting length     -Y   without taper     -Y   tapered to 3 mm     -PMU   with programmable measuring transducer (temperature ranges on request on preadjustment please specify)     -99-000191   KEM 150, welding sleeve, bullet, for G1/2" sealing system, di	mounting length	
-1A   1xPT100 class A     -KX   other types of sensor and tolerance on customer's request     tapered measuring point   tapered to 3 mm     -V0 (without description)   without taper     -V3   tapered to 3 mm     -V4   tapered to 4 mm     optional   used to 4 mm     -PMU   with programmable measuring transducer (temperature ranges on request on preadjustment please specify)     accessories   used to 50, welding sleeve, bullet, for G1/2" sealing system, diameter 35m, hygienic process adaption     -99-000191   KEM 150, welding sleeve, clinder, for G1/2" sealing system, diameter 30mm, hygienic process adaption     M12-connection wires   connection cable M12 angled, 4-pole, 5m PVC cable, grey     -101090   connection cable M12 angled, 4-pole, 5m PVC cable, grey     -101090   connection cable M12 angled, 4-pole, 5m PVC cable, grey     -101087   connection cable M12 angled, 4-pole, 5m PVC cable, grey	-B -C -D -E -F	100 mm mounting length 150 mm mounting length 200 mm mounting length 250 mm mounting length 300 mm mounting length
-KX   other types of sensor and tolerance on customer's request     tapered measuring point   without taper tapered to 3 mm tapered to 3 mm tapered to 4 mm     -V3   without taper tapered to 4 mm     optional   -     -PMU   with programmable measuring transducer (temperature ranges on request on preadjustment please specify)     accessories   -     -99-000191   KEM 150, welding sleeve, bullet, for G1/2" sealing system, diameter 35m, hygienic process adaption species adaption     -99-000193   ZEM 150, welding sleeve, cylinder, for G1/2" sealing system, diameter 30mm, hygienic process adaption     -99-000193   ZEM 150, welding sleeve, cylinder, for G1/2" sealing system, diameter 30mm, hygienic process adaption     -09-000193   Connection cable M12 angled, 4-pole, 5m PVC cable, grey connection cable M12 straight, 4-pole, 5m PVC cable, grey     -101090   connection cable M12 angled, 4-pole, 5m PVC cable, grey     -101097   connection cable M12 straight, 4-pole, 5m PVC cable, grey     -Dthreatist available   connection cable M12 straight, 4-pole, 5m PVC cable, grey	type of sensor and tole	rance
-V0 (without description)   without taper tapered to 3 mm tapered to 4 mm     -V4   v4     optional   -     -PMU   with programmable measuring transducer (temperature ranges on request on preadjustment please specify)     accessories   -     velding sleeves   -     -99-000191   KEM 150, welding sleeve, bullet, for G1/2" sealing system, diameter 35m, hygienic process adaption - yogen on the system of C1/2" sealing system, diameter 30mm, hygienic process adaption     -99-000193   ZEM 150, welding sleeve, cylinder, for G1/2" sealing system, diameter 30mm, hygienic process adaption     -010090   connection cable M12 angled, 4-pole, 5m PVC cable, grey     -101087   connection cable M12 angled, 4-pole, 5m PVC cable, grey     -01087   connection cable M12 straight, 4-pole, 5m PVC cable, grey     -01087   connection cable M12 straight, 4-pole, 5m PVC cable, grey		
-V3   tapered to 3 mm tapered to 4 mm     -V4   tapered to 4 mm     optional	tapered measuring poin	nt
-PMU   with programmable measuring transducer (temperature ranges on request on preadjustment please specify)     accessories	-V3	tapered to 3 mm
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     -99-000193   ZEM 150, welding sleeve, cylinder, for G1/2" sealing system, diameter 30mm, hygienic process adaptation     -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.	optional	
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     -101087   connection cable M12 angled, 4-pole, 5m PVC cable, grey connection cable M12 straight, 4-pole, 5m PVC cable, grey     Other lengths available on request.	-PMU	
-99-000191KEM 150, welding sleeve, bullet, for G1/2" sealing system, diameter 35m, hygienic process adaption ZEM 150, welding sleeve, cylinder, for G1/2" sealing system, diameter 30mm, hygienic process adaptation <i>M12-connection wires</i> 101090 -101087connection cable M12 angled, 4-pole, 5m PVC cable,grey connection cable M12 straight, 4-pole, 5m PVC cable, greyOther lengths available or request.	accessories	
-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.	-99-000191	hygienic process adaption ZEM 150, welding sleeve, cylinder, for G1/2" sealing system, diameter 30mm,
-101087   connection cable M12 straight, 4-pole, 5m PVC cable, grey     Other lengths available on request.	M12-connection wires	
For more accessories, see accessories data sheet.	Other lengths available on	request.
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