

# SONAR

## WR3 multidata



### Ultrasonic flow sensor sonar

The use of an ultrasonic meter can become necessary due to special technical or structural requirements. With our ultrasonic flow sensor we offer an intelligent solution for just such cases.

Ultrasonic flow sensors have the enormous advantage that there are no moving parts in the flow stream. This makes them unsusceptible to damage from the measuring fluid and allows them to work almost wear-free and silent. In addition, they can cope with up to two times the nominal flow, which guarantees reliable measurement and a long life for the measuring device. All installation positions are possible

The speed of the measuring fluid is determined according to the ultrasonic transit time principle. One ultrasonic signal is transmitted in the flow direction and one against the flow direction. In the direction of the flow rate, the signal is accelerated and it is decelerated against the flow direction. Calculations can be made about the flow rate and thus, the volume from the time delay measured. This volume information is transmitted to the WR3 calculator via calibrated electronic pulses.

A special performance feature of our ultrasonic flow sensor is its self-monitoring system. The electronic measuring equipment constantly checks the signals transmitted by the flow sensor with regard to their quality – sensor pollution is registered immediately. The device warns you in time when pollution starts to become damaging.

The flow sensor's electronic WR3 multidata system is remote mounted enabling the device to be installed in confined and hard-to-reach places.

The flow sensor sonar can be combined with all multidata calculators.



# Temperature sensors

## Standard sensors

Our standard sensors are platinum resistance thermometers PT500 or PT100 with 2-wire technology. They can be fitted as direct sensors or installed in a pocket sleeve. This sensor model is available in the diameters 5 mm and 6 mm.

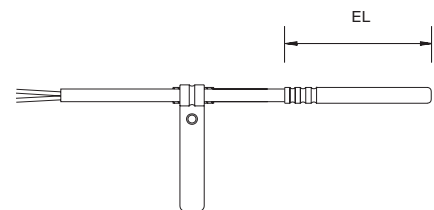


We recommend mounting the temperature sensor by immersing it directly in the measuring fluid for all new installations up to and inclusive of Qn 2,5. To do so, the sensor is equipped with a direct sensor adapter and installed in a ball valve with sensor input.

If the sensor is to be used in a pocket sleeve, then you must pay attention to the correct diameter in order to guarantee the best possible metrological conditions.

The wire connection on the calculator is noted on the corresponding clamp for the forward and return flow.

Dimensions			
D	EL	TH	Cable*
mm	mm	mm	m
5	45	34,5	1,5
6	105	85	3
6	140	120	3



\*Other lengths of cable on request