

Flexim FLUXUS® WD

Non-Intrusive Water Flow and
Temperature Monitoring

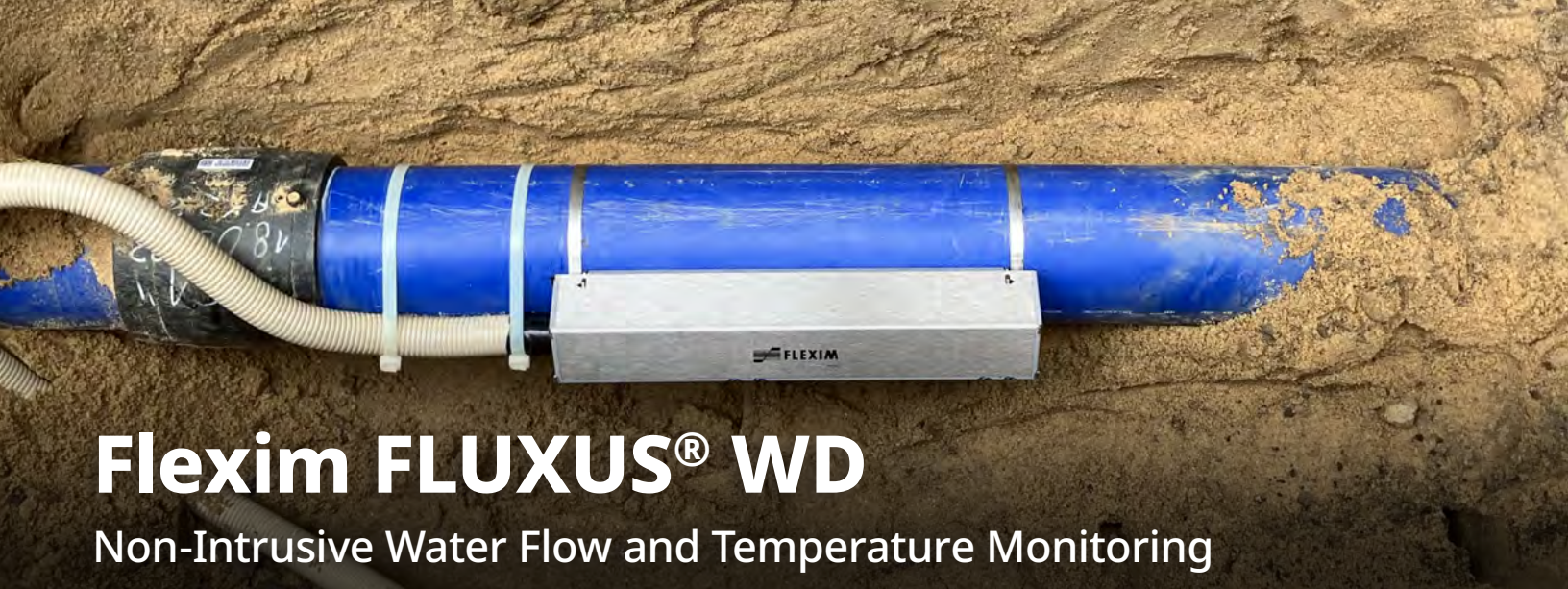
Leakage
Alarm

Temperature
Alarm



FLEXIM


EMERSON



Flexim FLUXUS[®] WD

Non-Intrusive Water Flow and Temperature Monitoring

Drift-free flow measurement

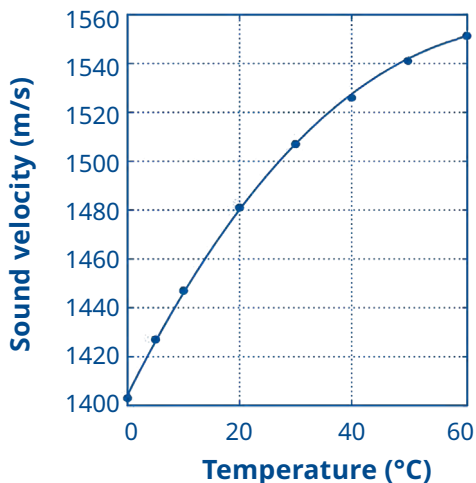
There is no method of zero drift correction for our instruments – because they just don't drift. This also applies to the WD Series that is installed without zero calibration and remains drift-free, permanently. Emerson is the only company that accomplishes this, thanks to its unique combination of matched piezo-transducers and advanced factory calibration.

Outstanding low flow accuracy

The WD Series belongs to the most reliable and accurate ultrasonic clamp-on systems. Furthermore, it measures flow rates as low as 0.03 ft/s (0.01 m/s). The inaccuracy of other meter technologies can increase so dramatically in the low flow range, that they are unsuitable for monitoring minimum night flows. But for water suppliers the precise monitoring of minimum night flows is an essential part of their leakage detection activities – and the WD Series is the ideal tool for this task.

Non-intrusive temperature measurement

Bacterial growth increases in drinking water networks with increasing temperatures. Especially in parts of the network where flow velocities are low, leading to longer residence times, higher water temperatures represent a hygienic risk. Emerson offers precision, non-intrusive ultrasonic flow measurement in low flow applications, enabling operators to monitor volume flow, velocity, and temperature with a single device.



Flow velocity	0.03 ft/s (0.01 m/s)
Temperature	54,3 °F (12.4 °C)
Flow rate	9.81 gpm (2.262 m ³ /h)



Application Versatility

- Outstanding low flow accuracy down to 0.03 ft/s (0.01 m/s)
- Temperature measurement accuracy of ± 0.2 K
- Minimal installation costs and zero pipe interference
- Permanently drift-free and no zero calibration needed
- Temperature compensated transducers
- P68 transducers
- Permanent maintenance-free coupling pads
- Transducers can be buried (no chamber required)



Low installation costs

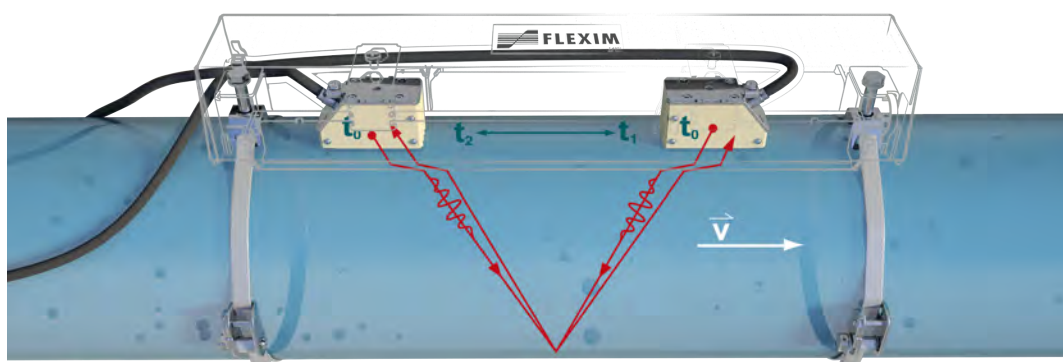
When creating a new flow measurement point the main costs are not incurred by the instrument but by the installation work (supply interruption, pipe cutting, pipe flushing, etc.). These costs are significantly reduced using the clamp-on technology of the WD Series that does not require any work that affects the integrity of the pipe. This enables a very simple and cost-effective installation of further flow measurement points within an existing water supply network.

Built to last

The WD Series comes with the most robust mounting system on the market. The transducers are fixed to the pipe with broad stainless steel straps and secured in robust stainless steel housings. The transducers themselves have IP68 protection and reinforced transducer cables. They are connected to the pipe with permanent coupling pads, instead of coupling gel that can deteriorate or be washed away. All this ensures the durability of the system and makes it suitable for both installations in chambers and buried installations.

Works on difficult pipes

The WD Series is available with different transducer types and is suitable for inner diameters ranging from 0.39...255 inches (10 ... 6500 mm). The strong signal output and noise suppression technology make it possible to use the WD Series on all pipe materials, even on such challenging ones as fiber-reinforced plastic (FRP) pipes. The outstanding performance of Emerson is shown by thousands of references worldwide. Contact your local Emerson support office for more details.






Advanced Meter Verification

Advanced Meter Verification (AMV) allows you to check the health of your FLUXUS® flow meter in depth directly on site without the need of process interruption.

TECHNICAL FACTS

	 F731 WD	 F532 WD
Number of measuring channels:	1 or 2	1
Transducer for pipe sizes range:	0.39...255 inches (10...6500 mm)	0.39...79 inches (10...2000 mm)
Volumetric flow rate uncertainty:	±1% MV ±0.02 ft/s (±1% v. MW ±0,005 m/s)	
Volumetric flow rate repeatability:	0.15 % MV ±0.02 ft/s (0,15% v. MW ±0,005 m/s)	
Temperature reading uncertainty:	±0,2 K (fluid temperature 32 to 86 °F / 0 °C...30 °C)	
Power supply:	90 ... 264 VAC or 11 ... 32 VDC	90 ... 250 VAC or 11 ... 32 VDC
Transducer degree of protection:	IP68 or IP67	
Transducer for temperature range:	-40 to +266 °F (-40 °C ... 130 °C)	
Outputs:	4 - 20 mA aktive / passive 4 - 20 mA HART aktive / passive pulse / binary	
Digital communication:	Modbus RTU/TCP, BACnet MSTP/IP M-Bus, Profibus PA, Foundation Fieldbus	Modbus RTU/TCP, BACnet MSTP/IP M-Bus



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