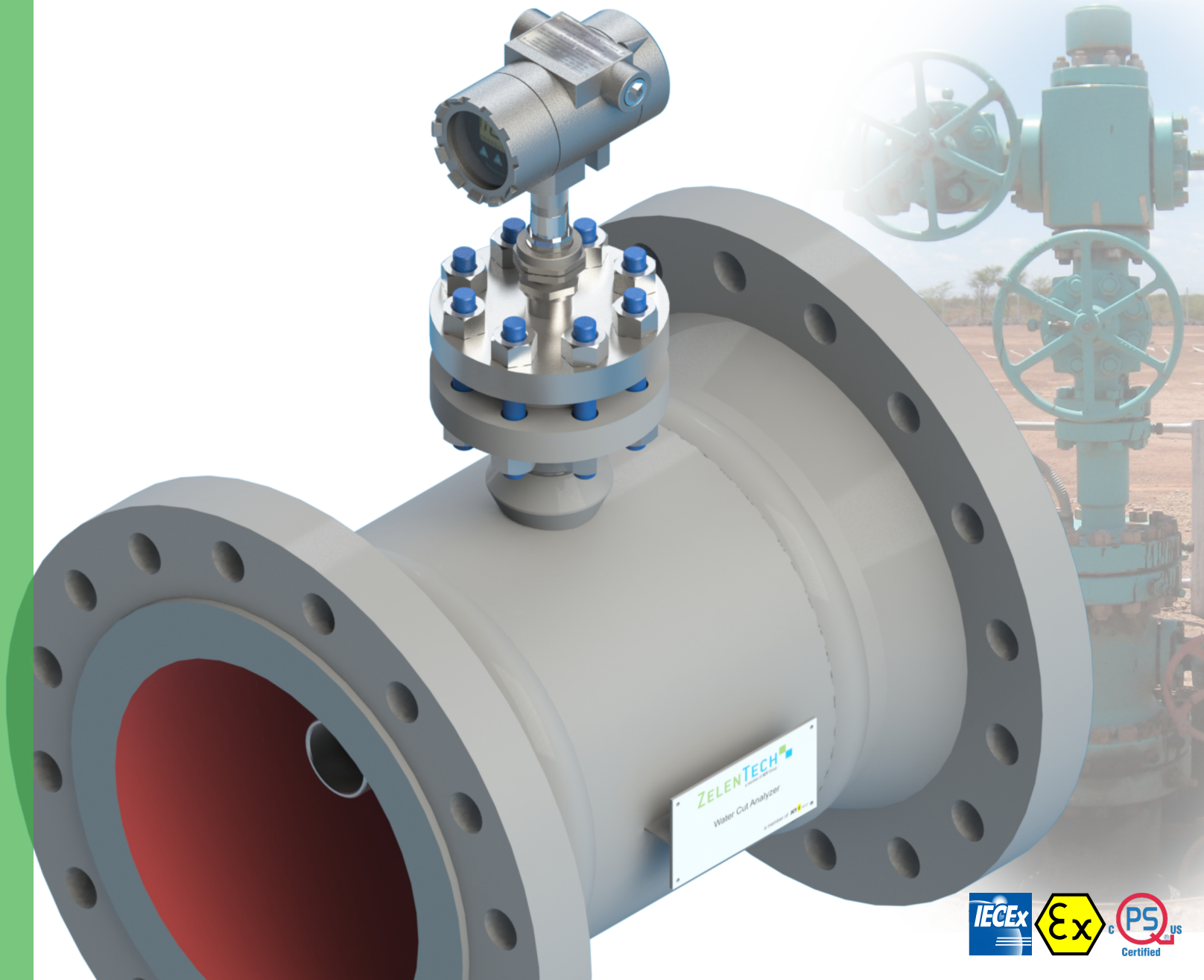


ZT-100 F-Series Water Cut Analyzers

- Full Bore
- Isokinetic
- 4-32 inch
- Safe Anti-Blowout design





ZT-100 F-Series Water Cut Analyzers

The iso-kinetic ZelenTech F-Series is a full bore spool piece design that can be built to be 100% compatible with main lines while the flanged probe (316L or other austenitic steels) will provide an isokinetic measurement (i.e. it does not create flow distortions leading to measurement errors).

The ZelenTech ZT-100 Water Cut Analyzer determines the percent water in an oil emulsion without requiring the physical separation of the fluids. The emulsion stream is continuously monitored for capacitance and converted into percentage of water by the Water Cut Analyzer logic.

ZelenTech ZT-100 Water Cut Analyzers (also known as BS&W, OWD, WFM or Water in Oil Analyzers/Monitors) offers you unmatched flexibility as we offer virtually unlimited number of configurations.

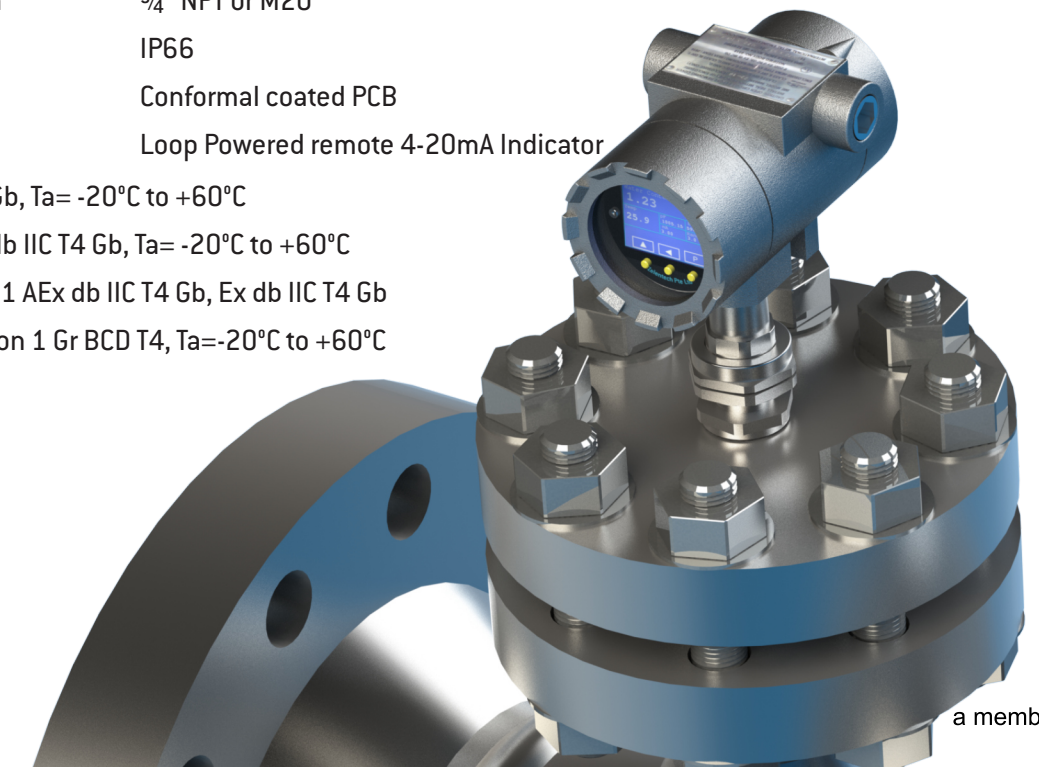
The ZelenTech ZT-100 F-Series can optionally be fitted with an integrated Static Mixer (FM-Series). The mixer will ensure that a well mixed and homogenized stream will reach the sensor. We configure mixer elements and spacing in accordance with standards such as ISO 3171 and API MPMS8.2 to ensure that the sensor will see a truly representative view of what is going on in your pipes.

GENERAL INFORMATION - F-SERIES

Mounting	In Line. Horizontal or Vertical. (Avoid air traps/water traps)
Size	3 inch to 32 inch
Pressure Ratings	Up to Class 1500#, 260bar. Higher pressure on request.
Process Connection	ANSI, DN or JIS flange 3"-32"
Range	Low Range 0-25%, High Range 0-65%, High Range 0-100% (select services).
Certification	IECEX, ATEX, ETL (us/ca)

GENERAL SPECIFICATION

Operating Principle	RF Admittance / High Res Digital Capacitance	
Power	24VDC (Loop Powered)	
Output	4-20mA. Fully scalable	
Digital Interface	HART	
Operating Temp	Process Fluid	Standard version 0-135 deg C. High Temp version 0-240 deg C
	Ambient	-20 to 60 deg C
Resolution	Low Range: 0.003%	High Range: 0.01%
Repeatability and Precision	Low Range: Up to 0.01%	High Range: Up to 0.05%
Wetted Materials (Sensor)	SS316L. Optional: Duplex 2205, Inconel 625, Monel 400, Super Duplex 2507	
Spool Section:	Any available material	
Seal Material	PEEK with Viton A O-Ring. O-Ring optional: Nitrile, PTFE, Kalrez.	
Corrosion Protection	NACE MR-0175/ISO 15156 2009, Sour service compliant	
Transmitter Mounting	Integral with sensor	
EXD Enclosure	Powder Coated Aluminium or SS316L	
Electrical Connection	¾" NPT or M20	
Ingress Protection	IP66	
Humidity Protection	Conformal coated PCB	
Accessories	Loop Powered remote 4-20mA Indicator	
IECEX:	Ex db IIC T4 Gb, Ta= -20°C to +60°C	
ATEX:	Ex II 2 G, Ex db IIC T4 Gb, Ta= -20°C to +60°C	
ETL:	Class I, Zone 1 AEx db IIC T4 Gb, Ex db IIC T4 Gb	
ETL:	Class I Division 1 Gr BCD T4, Ta=-20°C to +60°C	



DESIGN AND INTEGRITY

The ZelenTech ZT-100 Water Cut Analyzers are built to strict standards. Ability to accommodate a vast variety of Piping Specifications ensures that the meter becomes an integral part of the piping system and not a weak link.

ZelenTech's ISO9001 quality system is able to accommodate any customer requirements for documentation, material traceability and quality assurance.

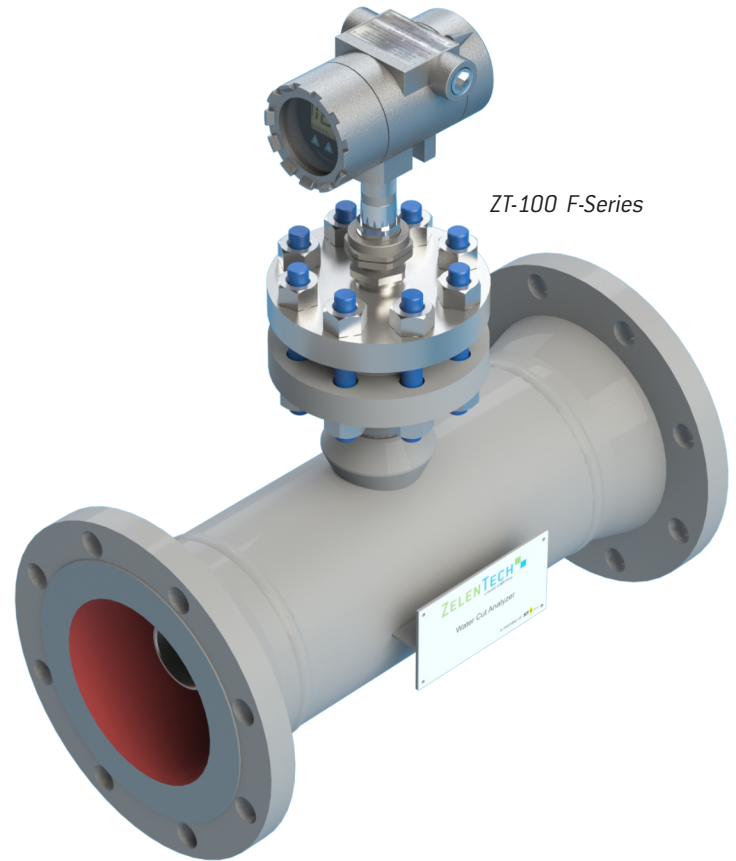
ZT100 FM-Series with Built In Static Mixer



FLOW CONDITIONING

The ZT-100 Water Cut Analyzer can be supplied with built in Static Mixer providing a well conditioned stream both for inline measurement and sampling.

Designed in accordance with standards such as API 8.2, API MPM TR2570 and ISO 3171.



ZT-100 F-Series

Why ZelenTech?

The ZelenTech ZT100 Water Cut Analyzer is designed to provide reliable results in environments from the North Sea to Sahara. Offering unmatched flexibility for material, size, features and configurations the ZT100 can be integrated into almost every oil carrying system.

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