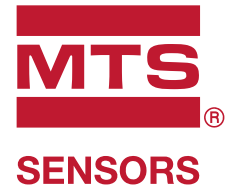
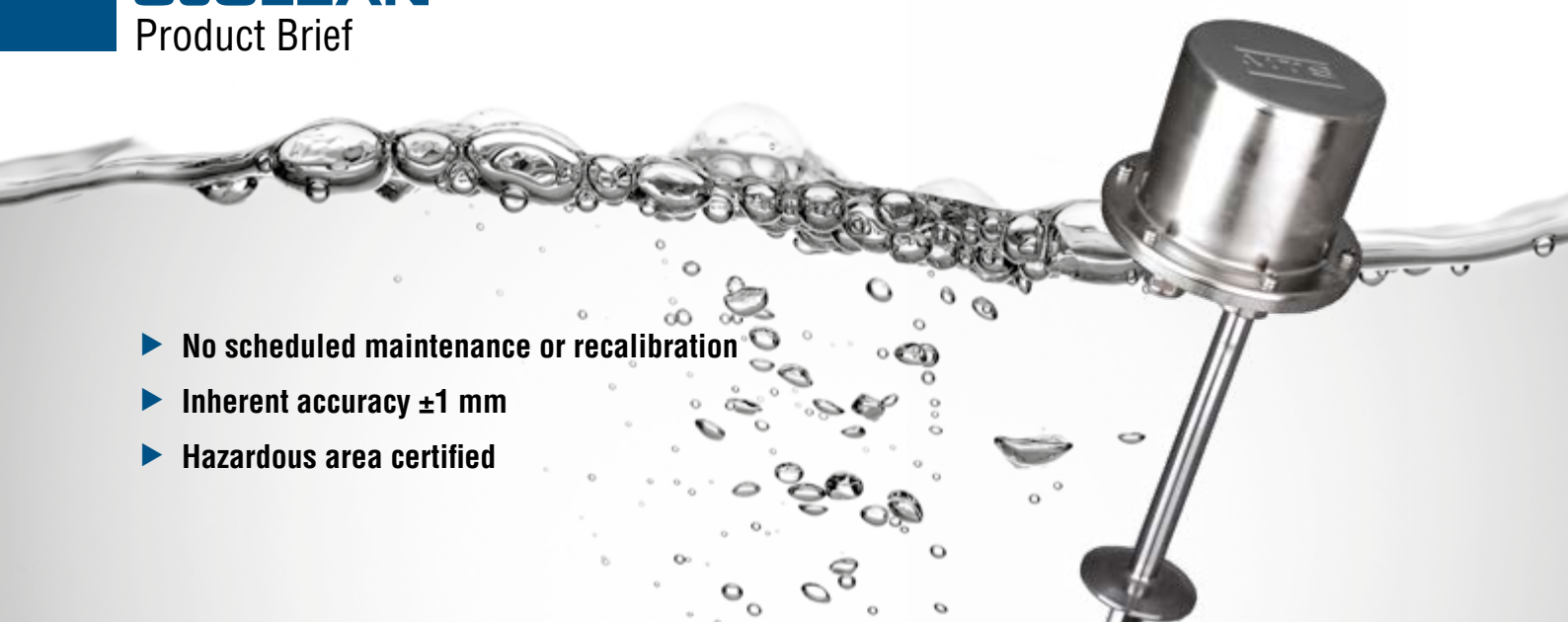


Level Plus®

Magnetostrictive Liquid Level Transmitters
with Temposonics® Technology



SoCLEAN® Product Brief

- 
- ▶ **No scheduled maintenance or recalibration**
 - ▶ **Inherent accuracy ± 1 mm**
 - ▶ **Hazardous area certified**

The Level Plus® SoClean® liquid level transmitter is designed to be hygienic and has a proven track record of over 30 years of satisfied customers in the pharmaceutical, food & beverage, and cosmetic industries.

The key to the success of the SoClean® level transmitter is its hygienic design that can be used under harsh process conditions of turbulence, foaming, and misting. MTS has replaced inferior ultrasonic and guided wave radar sensors that were not able to function correctly in the harsh environment or that were not able to provide the specified accuracy. MTS tests 100 % of our level transmitters and guarantees the inherent accuracy of ± 1 mm.

The wetted parts for SoClean® can be cleaned using standard CIP and SIP processes. Numerous customers have tested and certified MTS using Riboflavin testing. Wetted parts are available in a standard sanitary finish of Ra 0.64 μm (25 μin) for food grade applications or an electropolished finish of Ra 0.38 μm (15 μin) for pharmaceutical grade applications. The external parts of the SoClean® level transmitter can be used in wash-down applications featuring a specially design stainless steel housing.

Once the SoClean® level transmitter is installed and calibrated there is no requirement scheduled maintenance or recalibration.

Set it and forget it!

MORE FEATURES

- Sanitary finish Ra 0.64 μm (25 μin)
- Electropolished finish Ra 0.38 μm (15 μin)
- No scheduled maintenance or recalibration
- Field repairable

TYPICAL APPLICATIONS

- Process control
- Batching
- Bioreactor
- CIP tank

MARKETS

- Food and Beverage
- Pharmaceutical
- Cosmetics

REGULATORY COMPLIANCE

- Intrinsically safe
- Explosion proof / Flameproof
- 3-A
- SIL2

TECHNICAL DATA

Output	
Output signal / Protocol	Analog (4...20mA), HART®, Modbus RTU, DDA
Measured value	Product level, interface level and temperature
Measurement parameters	
Inherent accuracy	±1 mm (±0.039 in.)
Repeatability	0.001 % F.S. or 0.381 mm (0.015 in.) ¹ (any direction)
Operating conditions	
Operating temperature	Electronics: -40 ...71 °C (-40...160 °F) Sensing element: -40...125 °C (-40...257 °F) ² Temperature element: -40...105 °C (-40...221 °F)
Design / Material	
Wetted parts	Stainless steel (AISI 316L) ³
Non-wetted parts	Stainless steel (AISI 316L), epoxy coated aluminum
Order length	Rigid pipe: 305...7620 mm (12...300 in.) ^{4,5}
Vessel pressure	Rigid pipe: 69 bar (1000 psi)
Electrical connection	
Operating voltage	10.5...28 VDC

- ¹ Whichever is greater
² Contact factory for specific temperature ranges
³ Contact factory for alternative materials
⁴ Contact factory for longer lengths
⁵ Order length equals the measurement range plus the inactive zone

TECHNICAL DRAWING

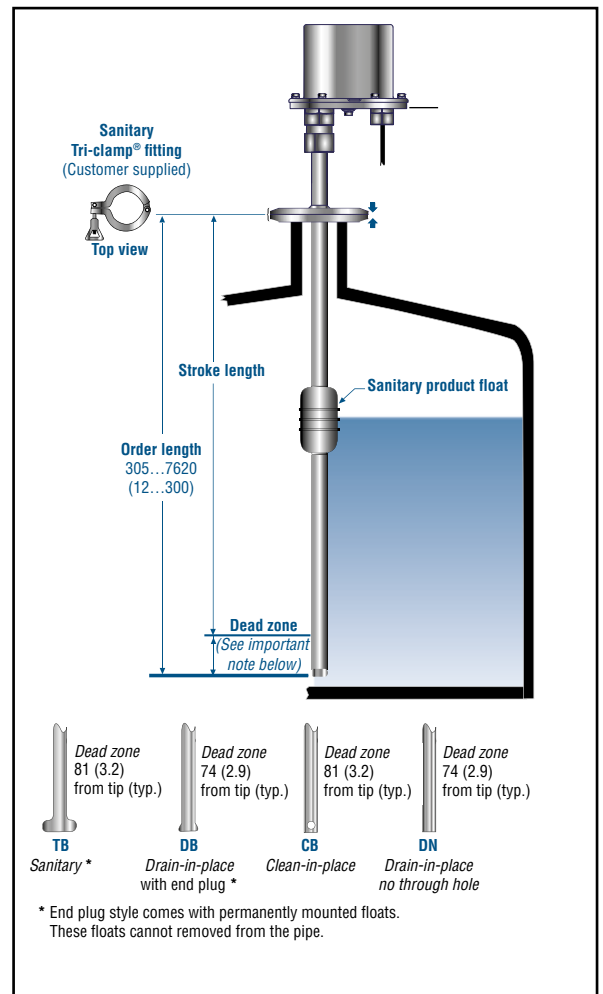


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