

TMS Sensor

Thin, compact, battery-free ultrasonic sensor, with RFID for location assignment. The Inductosense TMS sensor can be permanently installed on to the surface of structures, such as pipes and vessels. The TMS Sensor comes in two configurations: **TMS-B** and **TMS-S**, applications for each varies depending on parameters such as material wall thickness, diameter and curvature of the material.



- ③ Low-profile and embeddable
- ③ Battery-free – wirelessly powered up by the WAND data collector
- ③ ATEX/IECEX approved
- ③ Easily attached using epoxy adhesive – quick installation
- ③ Each sensor comes with an associated RFID

Specifications

Product code	TMS-B	TMS-S
Dimensions	65mm OD, 1mm thick	65mm OD, 1mm thick
Weight	6.5g	6.5g
Operating frequency	5MHz	5MHz
Minimum thickness	5mm	2mm
Maximum thickness	150mm	50mm
Minimum specimen diameter	90mm	50mm
Transducer active area	5 x 15mm	5 x 7mm
WAND-TMS stand-off	40mm	20mm
Maximum operating temperature	90°C	130°C
Sensor resolution	<0.05mm	<0.05mm
Coating	If operating temp < 120°C → Patch If operating temp > 120°C → Paste	If operating temp < 120°C → Patch If operating temp > 120°C → Paste
Certifications	Ex ia IIC T4...T3 Ga IECEX BAS 18.0019X	Ex ia IIC T4...T3 Ga IECEX BAS 18.0019X



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