

Flexible intrinsically safe gauge for tank level measurement Master Level serie AT05510



AT05510 Flex is a level and environmental sensor which is especially designed for large storage tanks.

When the installation of the AT05510 Flex level sensor has been completed, the corrugated tube is positioned vertically and both the product and the water floater can freely move up and down.

The AT05510 Flex sensor works according to the magnetostrictive measuring principle. A wire made of magnetostrictive material has been integrated into the flexible tube.

The special design of the sensor allows the sensor body to bend so the AT05510 Flex can be packed compactly and shipped at low cost. Another advantage is the easy installation. A weight at the lower end of the sensor stretches it out to its full length, and a magnet placed below the weight secures the sensor to be in place. When the magnet is in contact with the bottom of the tank (after installation) any unintentional movement of the AT05510 Flex is avoided.

Technical data

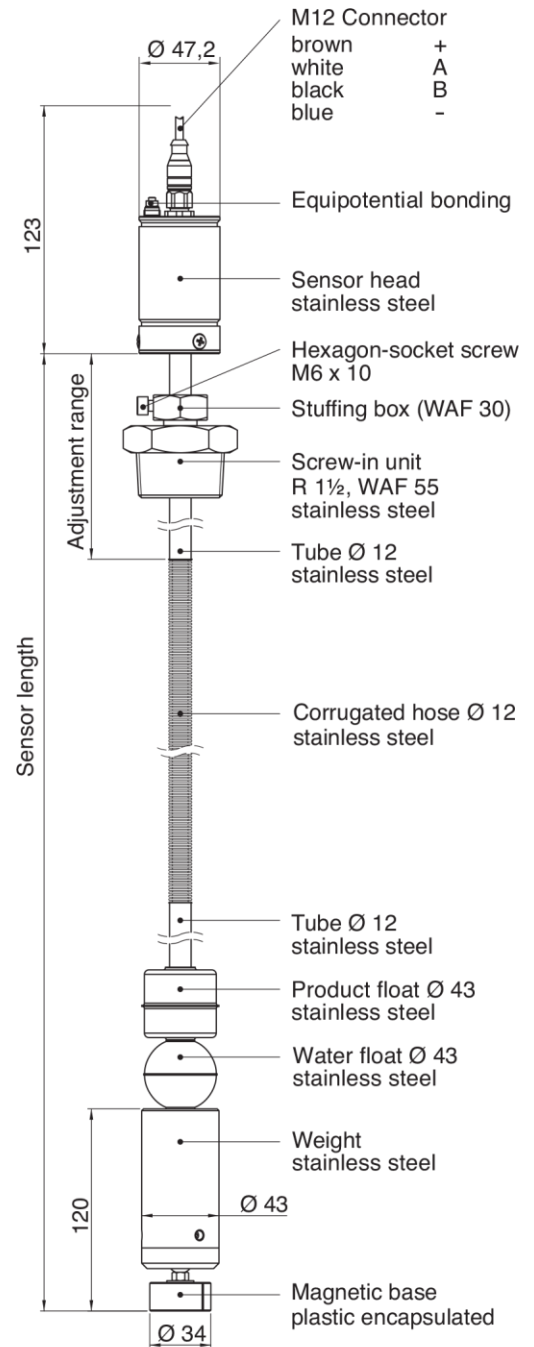
• Measurement lengths	Up to 22 m
• Accuracy	± 1 mm (product) ± 3 mm ± 0,05% +1 mm (water)
• Repeatability	± 0,5 mm (product) ± 0,5 mm (water)
• Floater	Ø 43x43 mm (product) Ø 43 mm (water)
• Water detection	Continuously from 150 mm
• Temperature Measuring range	-40 ÷ +85°C
• Temperature Measuring accuracy	± 0,5°C
• Electrical connection	M12 connector for cable terminal
• Protection class	IP68
• Sensor material	1.457/316Ti (dipstick) 1.4404/316L (corrugated tube) 1.4305/303 (head)



- Marking
II 1 G Ex ia IIC T6...T5 Ga
II 1/2G Ex ia IIC T6...T4 Ga/Gb
II 2 G Ex ia IIC T6...T4 Gb
II 1D Ex ia IIIC T135 °C Da



Example application with radio transmitter AT10610 series



Dimensions in mm

Codes

AT05510	/PRODUCT	/HEIGHT
	/C: fuels	/XXXX: height in cm

Specification subject to change without notice