

Standard intrinsically safe gauge for tank level measurement Master Level series AT11610



AT11610 is a level and environmental sensor that has been specially designed to offer high-precision volume and leakage monitoring.

The AT11610 sensor operates in accordance with the magnetostrictive measuring principle. The sensor tube contains a wire made of magnetostrictive material. Magnets integrated in the floats magnetise the wire at the float position. The sensor electronics transmit current pulses through the wire, which generate a circular magnetic field. A torsional wave develops at the point where the two magnetic fields overlap and it propagates towards the sensor head. In the sensor head, these waves are converted into an electrical signal. The float positions and the temperature are calculated from the different propagation times.

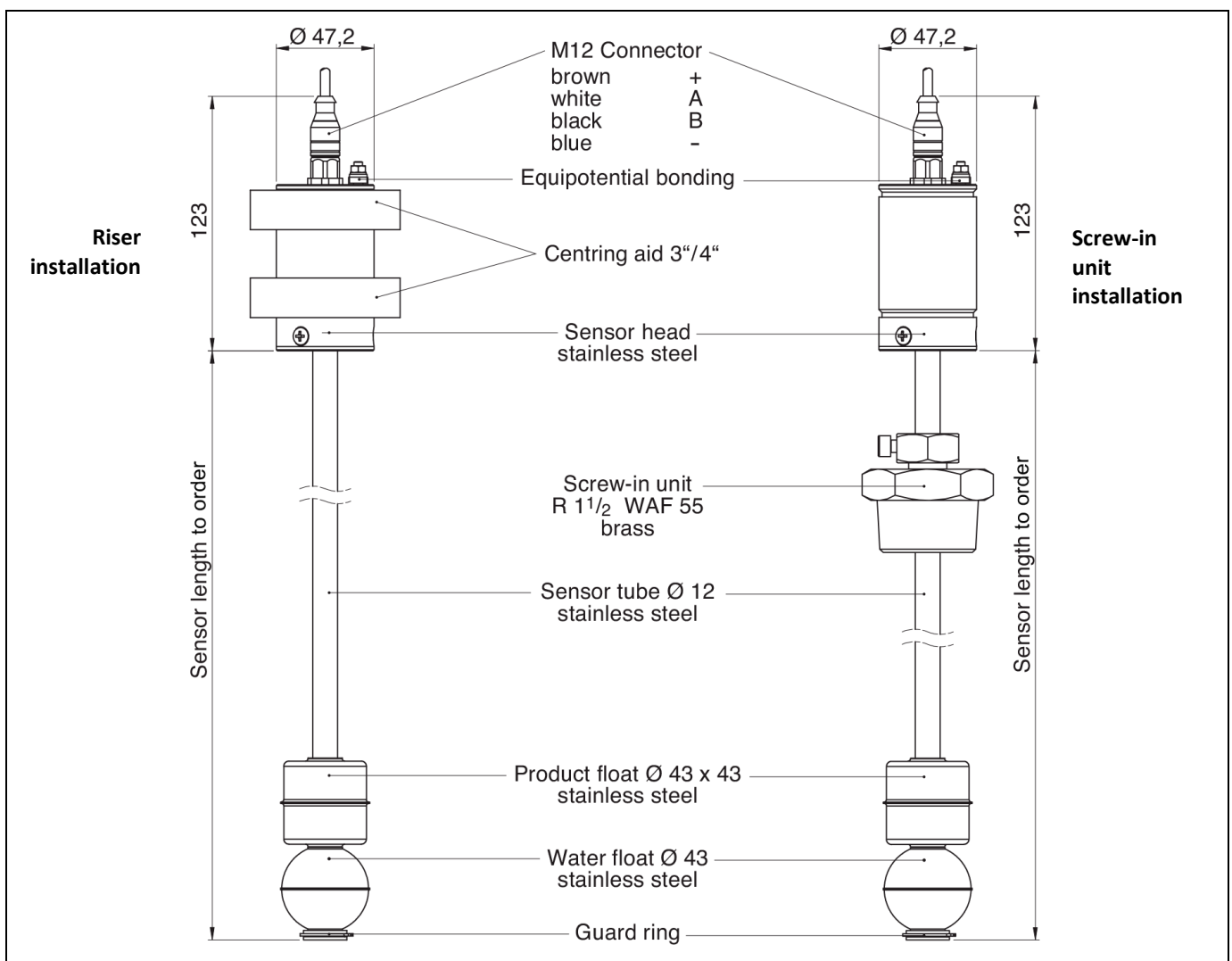
Technical data

• Product accuracy	± 0,5 mm (product) ± 2 mm (water)
• Repeatability	± 0,1 mm (product) ± 0,5 mm (water)
• Resolution	0,001 mm
• Floater	Ø 43x43 mm (product) Ø 43 mm (water)
• Water detection	Continuously from 30 mm
• Temperature Measuring range	-40 ÷ +85°C
• Temperature Measuring accuracy	± 0,5°C (20°C)
• Electrical connection	M12 connector for cable
• Protection class	IP68
• Sensor material	1.4301/304 (dipstick) 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



Code

AT11610	/PRODUCT	/HEIGHT
	/C: fuels	/XXXX: height in cm

Specification subject to change without notice