Atek Alfa

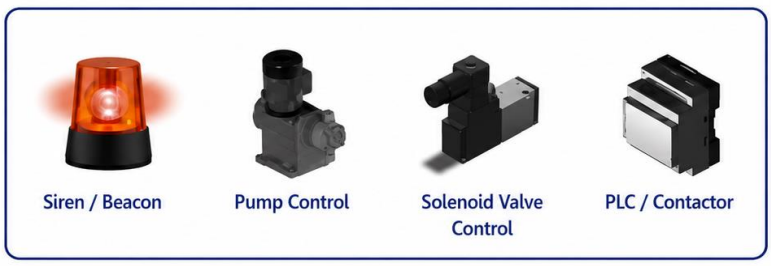
FLOAT LEVEL SENSOR

AFT 110

"Float level measurement,
various immersion lengths, analog output options"

- Various immersion length options from 75 mm to 1500 mm
- Wide range of customizable options (process connection type, electrical connection, material type, etc.)
- Various analog output options
- Maximum reliability thanks to high-quality reed contacts
- Fast and easy installation

The AFT 110 Series Float Level Transmitters operate based on the principle of a magnetic float moving vertically in response to the liquid level. The permanent magnet embedded inside the float actuates the reed switch contacts positioned at defined intervals along the guide tube through a non-contact magnetic field. The combination of these reed contacts generates a resistance value corresponding to the liquid level, which is continuously converted into an analog output signal by the transmitter electronics.



APPLICATIONS

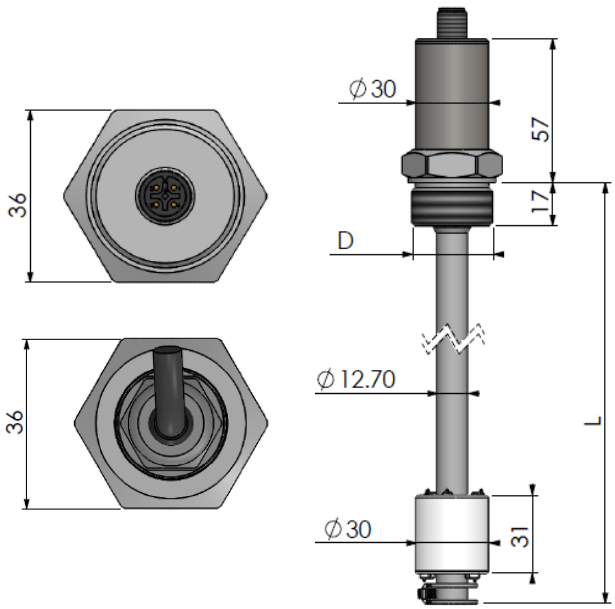
The AFT 110 Series Float Level Transmitters are used for level measurement of clean and low- to medium-viscosity liquids. Typical applications:

- Water and wastewater systems
- Chemical and petrochemical tanks
- Fuel and oil storage tanks
- Boiler control systems
- Hydraulic oil tanks level monitoring

TECHNICAL FEATURES

ELECTRICAL DATA		
Measurement Principle	Level information is converted into an electrical signal through the actuation of reed switch contacts by a magnetic float.	
Output Signal	4...20mA (2 Wire), 0...10V_{DC}, 0...5V_{DC}, 0.5-4.5V_{DC} (Ratiometrik)	
Supply Voltage	4-20mA(2 Wire)	13 ... 30 V_{DC}
	0-10V_{DC}, 0-5V_{DC}	12 ... 30 V_{DC}
	0.5-4.5V_{DC} (Ratiometrik)	5 V_{DC}
Electrical Connection	DIN43650-A, DIN43650-C, M12x4 Connector or Cable	
MECHANICAL DATA		
Immersion Pipe Length (L)	Different options from 75mm to 1500mm (thread included) (optional others)	
Process Connection (E)	G1/2'', G1", G1-1/2'', G2, M20x1,5 (optional other)	
Immersion Pipe Diameter (D)	12.7mm	
Resolution, Accuracy	20 mm (optional other)	
Number of Floats	1 (optional others)	
Material	Float: NBR	
	Wetted parts: 304 SS	
	Pipe: 304 SS	
ENVIRONMENTAL DATA		
Protection Class	IP65	
Working Temperature	-20°C ... +85°C	

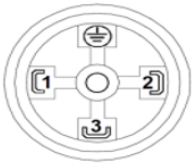
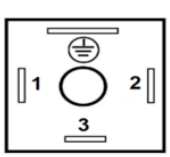
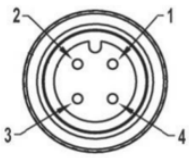
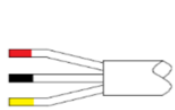
MECHANICAL DIMENSIONS (mm)



FLOAT TYPE

Model	Picture	Description
FLT1 (standard)		**Dimensions:** 32 x 32 x 14,5 mm **Material:** NBR

ELECTRICAL CONNECTIONS

					
		S30	S31	S12	CABLE
		DIN D43650-A	DIN D43650-C	M12 4 PIN	COLOR
		PIN NO	PIN NO	PIN NO	
CURRENT OUTPUT	+Vcc	2	2	2	RED
	Analog Output	1	1	1	BLACK
VOLTAGE OUTPUT	+Vcc	2	2	2	RED
	GND	1	1	1	BLACK
	Analog Output	3	3	3	YELLOW

ORDER CODE

1-Model

AFT 110

2- Immersion Pipe Length (mm) (L)

0075: 75mm	**0300:** 300mm	**0550:** 550mm	**0800:** 800mm	**1100:** 1100mm
0100: 100mm	**0350:** 350mm	**0600:** 600mm	**0850:** 850mm	**1200:** 1200mm
0150: 150mm	**0400:** 400mm	**0650:** 650mm	**0900:** 900mm	**1300:** 1300mm
0200: 200mm	**0450:** 450mm	**0700:** 700mm	**0950:** 950mm	**1400:** 1400mm
0250: 250mm	**0500:** 500mm	**0750:** 750mm	**1000:** 1000mm	**1500:** 1500mm

***Thread included**

***Please ask for other options.**

***Models with a stroke range of 75–1000 mm are available in 25 mm increments, while models with a stroke range of 1000–1500 mm are available in 100 mm increments.**

3- Resolution

20: 20 mm

***Please ask for other options**

4- Output Signal

A: 4-20mA
V1: 0-5 VDC
V: 0-10 VDC
V3: 0.5-4.5 VDC

***Please ask for other options**

5- Process Connection

G1/2 : G1/2''
G2 : G2''
G1-1/2 : G1-1/2''
G1 : G1''
M20 : M20x1,5

***Please ask for other options**

6- Electrical Connection

S30 : DIN43650-A Connector
S31: DIN43650-C Connector
S12: M12x4 Connector
2M: 2 Meters Cable

***Please ask for other options**

7- Housing Material

E304 : 304 SS (std.)

***Please ask for other options**

SAMPLE ORDER CODE: AFT 110 – 100 – 20 – A– G1 – 2M – E304