

F6.50

PADDLEWHEEL FLOW TRANSMITTER



F6.50

The new F6.50 transmitter is a paddlewheel-based device and can be used for measuring any type of solid-free liquid.

The F6.50 transmitter provides a 4-20 mA current output and is equipped with a Bluetooth® connection for interaction with the Aliaxis Smart Connect app, which allows the user to set the transmitter configuration and installation parameters and other features.

The specific design guarantees an accurate flow measurements over a wide range of pipe sizes, from DN15 (0.5") to DN600 (24").

PADDLEWHEEL FLOW TRANSMITTER

APPLICATIONS

- Water and industrial wastewater treatment
- Water cooling systems
- Swimming pools
- Flow control and monitoring
- Water treatment
- Water regeneration plants
- Processing and manufacturing industry
- Water distribution

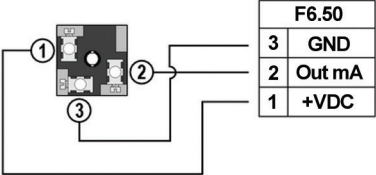
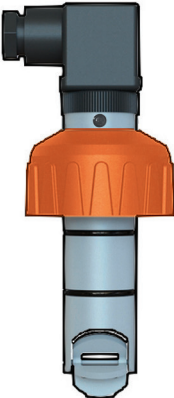
MAIN FEATURES

- High chemical resistance
- Pipe size range: DN15 (0.5") to DN600 (24")
- Low pressure drop
- Setting the functional parameters of the instrument and proximity reading of the information detected during its use through the Aliaxis Smart Connect application
- 4-20 mA signal transmission via cable connection

TECHNICAL DATA

General Information	Pipe size range : DN15 to DN600 (0.5-24") For more details, refer to the Installation Adapters section
	Wireless connection standards : Bluetooth® 5.0 compatible with iOS and Android
	Flow Range : 0.15 to 8 m/s (0.5-25 ft/s)
	Linearity : ±0.75% of full scale
	Repeatability : ±0.5% of full scale
	Minimum Reynolds number required : 4.500
	Protection class : IP65
	Materials in contact with liquids : <ul style="list-style-type: none">- Sensor body: PVC-C, PVDF or AISI 316L stainless steel- O-ring: EPDM or FKM- Rotor: ECTFE (Halar®)- Shaft: Ceramic (Al₂O₃) / AISI 316L Stainless Steel (for metal sensors)- Bearings: Ceramic (Al₂O₃) / absent (for metal sensors)
	Power supply : 12 to 24 VDC ±10% regulated (reverse polarity and short circuit protection)
	Max power consumption : 150 mA <ul style="list-style-type: none">- Ground connection: < 10 Ω
Current output : <ul style="list-style-type: none">- 4-20 mA, isolated- Max loop impedance: 800 Ω @ 24 VDC - 250 Ω @ 12 VDC	

ELECTRICAL CONNECTIONS TRANSMITTER F6.50



SMART CONNECT



The new F6.50 series rotor flow transmitters are able to communicate with the user via Bluetooth connection® and the Smart Connect App.

Smart Connect allows the user to interact with the transmitter in a simple and fast way to access the settings of the instrument or for a proximity reading of the information detected during its use.

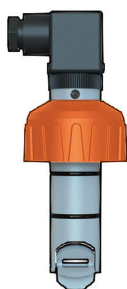
Main features of the Smart Connect App:

- Maximum signal range: 10 m, even in the presence of obstacles
- Setting installation parameters: pipe material and size, K-factor
- Protection of access to transmitter settings via user password
- Multilingual interface
- Reading of the instantaneous and totalized flow rate and related current output value
- Auto Flow Rate Calibration
- Setting the units of measurement, filters and percentage correction of measurement
- Setting of the flow measurement range corresponding to the 4-20 mA range
- Simulation of current values for evaluation of calibration and linearity of the output
- Data logger

The Smart Connect App is compatible with Android and IOs.



PRODUCT CODES



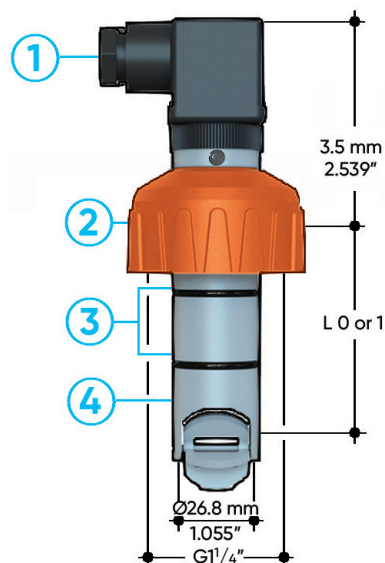
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Paddlewheel flow transmitters

Code	Power supply	Length	Main materials in contact with liquids	Protection class	Measurement range	Weight
F6.50.01	12 - 24 VDC	L0	PVC-C EPDM	IP65	0.15 to 8 m/s*	250
F6.50.02	12 - 24 VDC	L0	PVC-C FKM	IP65	0.15 to 8 m/s*	250
F6.50.03	12 - 24 VDC	L1	PVC-C EPDM	IP65	0.15 to 8 m/s*	300
F6.50.04	12 - 24 VDC	L1	PVC-C FKM	IP65	0.15 to 8 m/s*	300
F6.50.05	12 - 24 VDC	L0	PVDF EPDM	IP65	0.15 to 8 m/s*	250
F6.50.06	12 - 24 VDC	L0	PVDF FKM	IP65	0.15 to 8 m/s*	250
F6.50.07	12 - 24 VDC	L1	PVDF EPDM	IP65	0.15 to 8 m/s*	300
F6.50.08	12 - 24 VDC	L1	PVDF FKM	IP65	0.15 to 8 m/s*	300
F6.50.09	12 - 24 VDC	L0	STAINLESS STEEL** EPDM	IP65	0.15 to 8 m/s*	450
F6.50.10	12 - 24 VDC	L0	STAINLESS STEEL** FKM	IP65	0.15 to 8 m/s*	450
F6.50.11	12 - 24 VDC	L1	STAINLESS STEEL** EPDM	IP65	0.15 to 8 m/s*	500
F6.50.12	12 - 24 VDC	L1	STAINLESS STEEL** FKM	IP65	0.15 to 8 m/s*	500

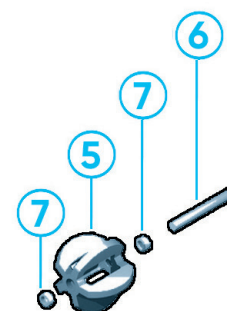
*0.15 at 8 m/s = (0.5-25 ft/s)
**AISI 316L

TECHNICAL DRAWINGS



Transmitter F6.50

- 1 4 pole cable plug according to DIN 43650-B/ISO 6952
- 2 PVC-U cap for installation on adapters (AISI 316L stainless steel for metal sensors)
- 3 O-ring available in EPDM or FKM
- 4 Sensor body in PVC-C, PVDF or AISI 316L stainless steel



Paddlewheel system

- 5 ECTFE Halar® open cell paddlewheel (registered trademark of Ausimont-Solvay)
- 6 Ceramic shaft (AISI 316L stainless steel for metal sensors)
- 7 Ceramic bearings (absent for metal sensors)