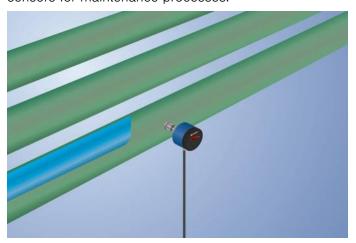
FFAF203

Part Number



- Display can be switched between flow and medium temperature
- Highest precision of its class
- Measurement independent of flow direction
- Selectable measuring range
- Temperature of the medium: 0 ... 100° C (140° C for 24 hours without current measurement)

wenglor UniFlow flow sensors measure the flow rate of aqueous and oily media in closed piping systems. UniFlow flow sensors are very easy to operate thanks to the integrated display. The highly visible switching status display enables the rapid localization of affected sensors for maintenance processes.



Technical Data

Sensor-specific data		
Measuring Range	235 l/min	
Adjustable Range	435 l/min	
Medium	Water	
Measuring error	2 %	
Switching Hysteresis	5 %	
Temperature gradient	30 K	
Response time in case of temperature jump	10 s	
Environmental conditions	10 3	
Temperature of medium	0100 °C	
Temperature of the medium, short-term	140 °C	
Ambient temperature	-2070 °C	
Mechanical Strength	60 bar	
EMC	DIN EN 60947-5-9	
Shock resistance per DIN IEC 68-2-27	30 g / 11 ms	
Vibration resistance per DIN IEC 60068-2-6	-	
Electrical Data	20 g (102000 Hz)	
	1632 V DC	
Supply Voltage	60 mA	
Current Consumption (Ub = 24 V)		
Switching Outputs	1	
Analog Output	420 mA Flow / Temp	
Response Time		
Switching Output/Switching Current	< 250 mA	
Switching Output Voltage Drop	< 2 V	
Current Output Load Resistance	< 500 Ohm	
Short Circuit Protection	yes	
Reverse Polarity Protection	yes	
Protection Class	III	
Mechanical Data		
Setting Method	Menu	
Housing Material	PBT; PC; FKM	
Material Control Panel	Polyester	
Material in contact with media	1.4435; 1.4404; FKM	
Degree of Protection	IP67 *	
Connection	M12 × 1; 4-pin	
Process Connection	Sealing cone M18 × 1,5	
Process Connection Length (PCL)	64 mm	
Probe Length (PL)	44 mm	
Safety-relevant Data		
MTTFd (EN ISO 13849-1)	1194,55 a	
Analog output switchable to flow or temperature		
PNP NO/NC switchable	Ŏ	
Connection Diagram No.	533	
Control Panel No.	A21	
	21	
Suitable Connection Technology No.	900 901	
Suitable Mounting Technology No.	900 901	

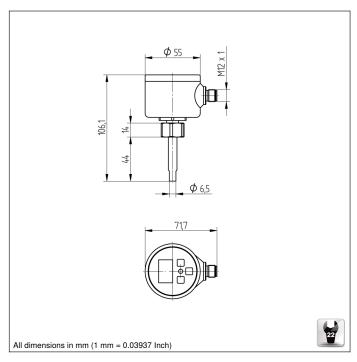
UniFlow

Complementary Products

Software

^{*} Tested by wenglor





Ctrl. Panel



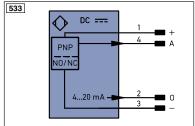
01 = Switching Status Indicator

20 = Enter Button

22 = UP Button

60 = Display

99 = Right button



_egen	nd		PT	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +		nc	not connected	ENв	Encoder B	
-	Supply Voltage 0 V		U	Test Input	Amin	Digital output MIN	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	Амах	Digital output MAX	
Α	Switching Output	(NO)	W	Trigger Input	Аок	Digital output OK	
Ā	Switching Output	(NC)	0	Analog Output	SY In	Synchronization In	
٧	Contamination/Error Output	(NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT	
V	Contamination/Error Output	(NC)	BZ	Block Discharge	OLT	Brightness output	
E	Input (analog or digital)		AMV	Valve Output	М	Maintenance	
Т	Teach Input		а	Valve Control Output +	rsv	reserved	
Z	Time Delay (activation)		b	Valve Control Output 0 V			
S	Shielding		SY	Synchronization	Wire Colors according to		
RxD	Interface Receive Path		E+	Receiver-Line	DIN IE	DIN IEC 757	
TxD	Interface Send Path		S+	Emitter-Line	BK	Black	
RDY	Ready		÷	Grounding	BN	Brown	
GND	Ground		SnR	Switching Distance Reduction	RD	Red	
CL	Clock		Rx+/-	Ethernet Receive Path	OG	Orange	
E/A	Output/Input programmable		Tx+/-	Ethernet Send Path	YE	Yellow	
0	IO-Link		Bus	Interfaces-Bus A(+)/B(-)	GN	Green	
PoE	Power over Ethernet		La	Emitted Light disengageable	BU	Blue	
IN	Safety Input		Mag	Magnet activation	VT	Violet	
OSSD	Safety Output		RES	Input confirmation	GY	Grey	
Signal	Signal Output		EDM	Contactor Monitoring	WH	White	
	Ethernet Gigabit bidirect. data	line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)	, ,		Encoder B/B (TTL)	GNYE	Green/Yellow	







