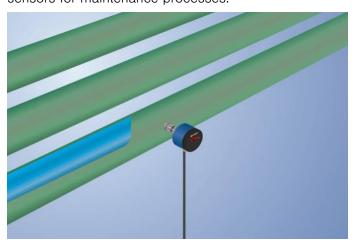
FFAF209

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

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		
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	20 g (102000 Hz)	
Electrical Data	3() , , , ,	
Supply Voltage	1632 V DC	
Current Consumption (Ub = 24 V)	60 mA	
Switching Outputs	2	
Switching Output A1	Flow	
Switching Output A2	Temp	
Response Time	15 s < 250 mA	
Switching Output/Switching Current		
Switching Output Voltage Drop	< 2 V	
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 ×	
Process Connection Length (PCL)	1,5 64 mm	
Probe Length (PL)	44 mm	
Safety-relevant Data	TT 111111	
	13/1 35 0	
MTTFd (EN ISO 13849-1) Diagnostic Coverage (DC)	1341,35 a	
5 ()	0 %	
Service Life TM (EN ISO 13849-1)	20 a	
PNP NO/NC switchable	•	
Connection Diagram No.	536	
Control Panel No.	A21	
Suitable Connection Technology No.	21	

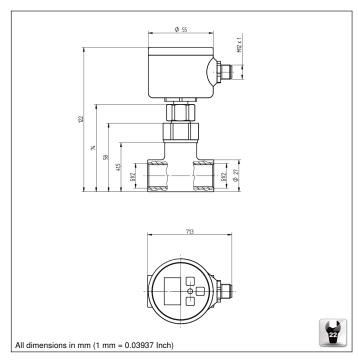
UniFlow

* Tested by wenglor

Complementary Products

Software

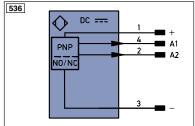




Ctrl. Panel



- 01 = Switching Status Indicator
- 20 = Enter Button
- 22 = UP Button
- 60 = Display
- 99 = Right button



Legend		PT	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +	nc	not connected	ENB	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	
V	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)	Awv	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	
•	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	
BI_D+/-	Ethernet Gigabit bidirect. data line (A	D) ENARS4	2 Encoder A/Ā (TTL)	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)		22 Encoder B/B (TTL)	GNYE	Green/Yellow	







