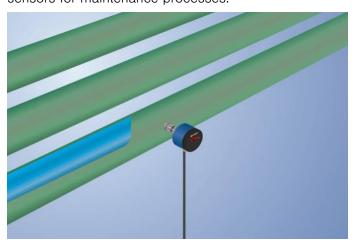
FFAF224

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

i echnicai Data			
Sensor-specific data			
Measuring Range	0,110 l/min		
Adjustable Range	0,410 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		
Pressure Resistance	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			
Supply Voltage	1632 V DC		
Current Consumption (Ub = 24 V)	60 mA		
Number of Switching Outputs	1		
Analog Output	420 mA Flow / Temp		
Response Time	15 s		
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			
Connection Diagram No.	533		
Control Panel No.	A21		
Suitable Connection Equipment No.	2		
Suitable Mounting Technology No.	900 901		
Canadia Mounting Teaminology No.	300 301		

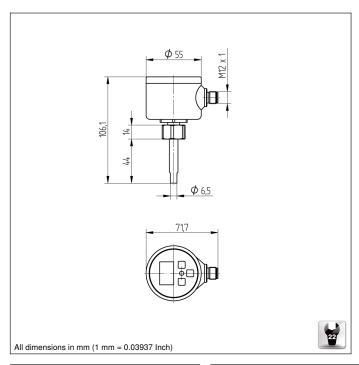
UniFlow

Complementary Products

Software

^{*} Tested by wenglor

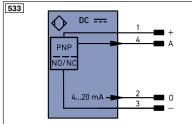




Ctrl. Panel



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



Legen	id		PT	Platinum measuring resistor	ENAR	Encoder A/Ā (TTL)	
+	Supply Voltage +		nc	not connected	ENBR	Encoder B/B (TTL)	
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output	(NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output	(NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX	
٧	Contamination/Error Output	(NO)	0	Analog Output	Аок	Digital output OK	
V	Contamination/Error Output	(NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)		BZ	Block Discharge	SY O	JT Synchronization OUT	
Т	Teach Input		AMV	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance	
S	Shielding		b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path		SY	Synchronization	Wire	Wire Colors according to DIN IEC 757	
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black	
RDY	Ready		E+	Receiver-Line	BN	Brown	
GND	Ground		S+	Emitter-Line	RD	Red	
CL	Clock		±	Grounding	OG	Orange	
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow	
•	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green	
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output		Mag	Magnet activation	WH	White	
BI_D+/-	Ethernet Gigabit bidirect, data	line (A-D)	RES	Input confirmation	PK	Pink	
ENors422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNY	Green/Yellow	







