## **Pressure Sensor**

## FFMP218

Part Number

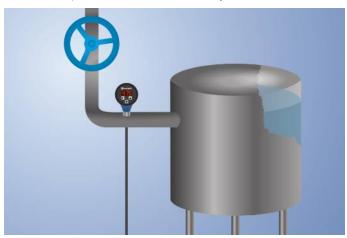


- Highly visible output indicator
- Piggable with flush mounting
- Simple operation via the display
- Space-saving process connection thanks to small pressure membrane

UniBar pressure sensors measure the relative pressure in closed systems of any medium in the range -1...600 bar.

UniBar pressure sensors are very easy to use thanks to the integrated display. The highly visible switching status display enables the rapid localization of affected sensors for maintenance processes.

Thanks to the metallic sealing edge on the process connection, no further seals are required.



## **Technical Data**

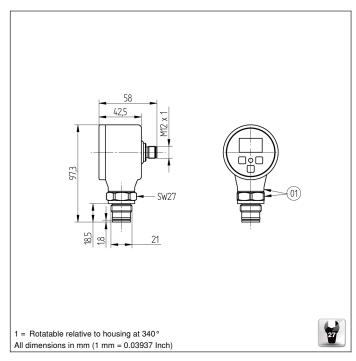
Sensor-specific data				
Measuring Range	040 bar			
Maximum overload pressure	80 bar			
Bursting pressure	160 bar			
Adjustable Range	4100 %			
Medium	Liquids, gases 2 % < ± 0,5 %			
Switching Hysteresis				
Measuring error				
Temperature Drift	0,025 %/K			
Environmental conditions				
Temperature of medium	-2580 °C			
Ambient temperature	-2580 °C			
EMC	DIN EN 61326-2-3			
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			
Switching Outputs	2			
Response Time	30 ms			
Switching Output/Switching Current	< 250 mA			
Switching Output Voltage Drop				
Resolution	10 bit			
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			
Degree of Protection	IP67 *			
Connection	M12 × 1; 4-pin			
Process Connection				
PNP NO/NC switchable	•			
Connection Diagram No.	536			
Control Panel No.	A05			
Suitable Connection Technology No.	21			

**Uni**Bar

**Fluid Sensors** 

<sup>\*</sup> Tested by wenglor

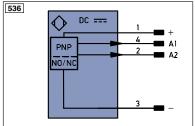




## Ctrl. Panel



- 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	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 +		
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 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		ED <b>M</b>	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









