## **Pressure Sensor**

## FFMP221 Part Number

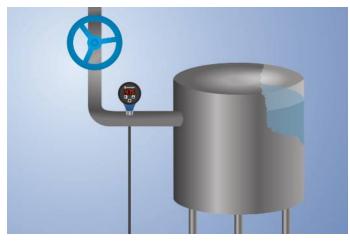


- Highly visible output indicator
- Piggable with flush mounting
- Simple operation via the display
- Space-saving process connection thanks to small pressure membrane

## 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.



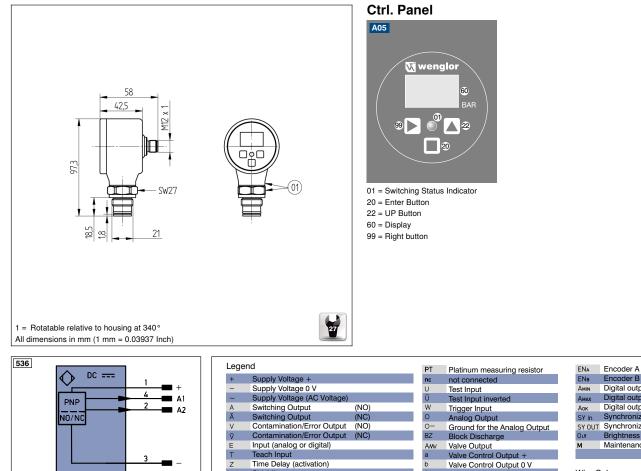
## **Technical Data**

Sensor-specific data	
Measuring Range	0250 bar
Maximum overload pressure	500 bar
Bursting pressure	1000 bar
Adjustable Range	4100 %
Medium	Liquids, gases
Switching Hysteresis	2 %
Measuring error	< ± 0,5 %
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	< 2 V
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	G 1/2"
PNP NO/NC switchable	
Connection Diagram No.	536
Control Panel No.	A05
Suitable Connection Technology No.	21
Suitable Mounting Technology No.	904

\* Tested by wenglor

**Uni**Bar





Time Delay (activation)

Shielding Interface Receive Path

Output/Input program

BLD+/- Ethernet Gigabit bidirect. data line (A-D) EN9rsuz Encoder 0-pulse 0-0 (TTL)

 RxD
 Interface Receive Patrice

 TxD
 Interface Send Path

Ready

Ground Clock

IO-Link

0SSD Safety Output Signal Signal Output

Power over Et

Safety Input

Z S

RDY

GND CL E/A

0

PoF

IN

ENA	Encoder A
ENв	Encoder B
Amin	Digital output MIN
Амах	Digital output MAX
Аок	Digital output OK
SY In	Synchronization In
SY OUT	Synchronization OUT
Οιτ	Brightness output
м	Maintenance
DIN IE	
DIN IE BK	
DIN IE BK BN	C 757 Black Brown
DIN IE BK BN RD	C 757 Black Brown Red
DIN IE BK BN RD OG	C 757 Black Brown
DIN IE BK BN RD OG YE	C 757 Black Brown Red
DIN IE BK BN RD OG	C 757 Black Brown Red Orange
DIN IE BK BN RD OG YE	C 757 Black Brown Red Orange Yellow
DIN IE BK BN RD OG YE GN	C 757 Black Brown Red Orange Yellow Green
DIN IE BK BN RD OG YE GN BU	C 757 Black Brown Red Orange Yellow Green Blue
DIN IE BK BN RD OG YE GN BU VT	C 757 Black Brown Red Orange Yellow Green Blue Violet
DIN IE BK BN RD OG YE GN BU VT GY	C 757 Black Brown Red Orange Yellow Green Blue Violet Grey

Synchronization Receiver-Line Emitter-Line

Tx+/- Ethernet Send Path Bus Interfaces-Bus A(+)/B(-) La Emitted Light disengages

Magnet activation

 Mag
 Magnet activation

 RES
 Input confirmation

 EDM
 Contactor Monitoring

 ENARSu2
 Encoder A/Ā (TTL)

 ENBRSu2
 Encoder B/B (TTL)

SY

E+ S+

Mag

