



- ▶ **Pressure range up to 1000 bar**
- ▶ **High strength, rugged stainless steel design**
- ▶ **Excellent accuracy, stability and high resistance to shock and vibration**

The EPT-FMT is a high quality stainless steel pressure transducer with a titanium sensing element intended for use in the measurement of solid materials, gases and liquids. Due to the flush membrane, the EPT-FMT is particularly suited for use in difficult to clean applications, in special machine construction and in process technology.

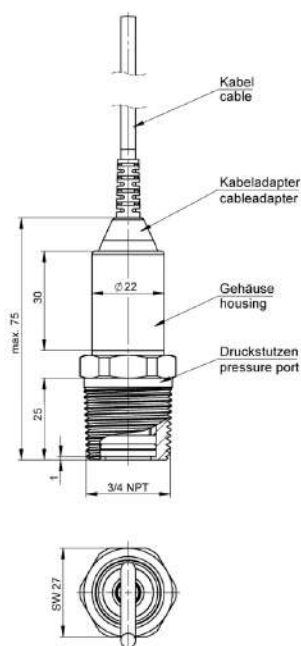
With additional EMI / RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the EPT-FMT assures trouble free operation at temperatures up to 155°C. The piezo resistive sensing element coupled with the latest ASIC circuitry, assures excellent accuracy and long stability, protected within a rugged, stainless steel housing. The sensor construction contains no silicone oil and no internal O- rings. Measurements are available in gauge, with ranges up to 1,000 bar.



Specifications		
Performance		
Accuracy @ RT	% of the range (gauge and vacuum sensors) < 0.5 BFSL of the range ≤ 0.15 %	(incl. nonlinearity, hysteresis, repeatability, zero-offset and final offset acc. to IEC 61298-2)
Non-linearity	% of the range ≤ 0.15	
Repeatability	% of the range ≤ 0.10	
Stability/year	% of the range ≤ 0.10	
Response time	1-2 ms	
Overrange pressure	up to 2x rated pressure	
Burst pressure	up to 5x rated pressure	
Pressure cycles	> 10 million	
Electronics		
Output -> Supply	4 - 20 mA -> 10 - 32 VDC	
Output impedance	< 100 Ω	
Current consumption	< 10 mA	
Reverse voltage protection	Yes	
Environment		
Temperature [°C]: Measuring medium Ambience Storage Compensated range	-40...155 -40...105 -40...125 -20...85	
Temperature coefficient within the compensated range:		
Mean TC offset	% of the range ≤ 0,15 / 10K	
Mean TC range	% of the range ≤ 0,15 / 10K	
Shock	1000 G, 11msec, 1/2 Sine	
Vibration	25 G peak, 20 to 2000 Hz	
Sealing	IP 66, optional IP 69K	
Mechanics		
Housing	304 stainless steel	
wetted parts	17-4PH stainless steel	
Pressure port	see select table	
Electrical connection	see select table	



Dimensions



Wiring

Type	Output	PIN 1	PIN 2	PIN 3	PIN 4
DIN EN 175301-803-A and C	0.5 - 4.5V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	4..20mA	+ Supply	Current output -	N/A	-
	I ² C	N/A	N/A	N/A	-
Round connector M12x1 A	0.5 - 4.5V , 1 - 5 V , 0 - 10 V	+ Supply	N/A	- Supply	Output +
	4..20mA	+ Supply	N/A	Current output -	N/A
	I ² C	1 V+	2 V-	3 SCL	4 SDA
Packard Metripac	Output	PIN A	PIN B	PIN C	-
	0.5 - 4.5V , 1 - 5 V , 0 - 10 V	- Supply	+ Supply	Output +	-
	4..20mA	Current output -	+ Supply	N/A	-
	I ² C	N/A	N/A	N/A	-
Cable assembly	Output	Red	Black	White	Green
	0.5 - 4.5V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	4..20mA	+ Supply	Current output -	N/A	-
	I ² C	V+	V-	SCL	SDA

Ordering information

(Please use the characters in the chart below to create your product code)

Sample Code EPT-FMT - 3/4 NPT - 01000 - B - 2 - A

Pressure Range

See table below

Pressure Unit

B gauge pressure (sealed reference)

Output signal

2 4...20 mA

- Electrical Connection
- A 600mm cable
 - B Miniature DIN EN 175301-803 C connector
 - C Packard Metripack connector
 - D Standard EN175301-803-A connector
 - F M12x1 Round connector
 - K Moulded cable (Sealing IP69K)

Pressure Range											
Bar	0.6	1.0	1.6	2.5	4	6	10	16	25	40	50
Order Code	00060	00100	00160	00250	00400	00600	01000	01600	02500	04000	05000
Bar	60	100	160	250	400	600	1000				
Order Code	06000	10000	16000	25000	40000	60000	100000				

The EPT-FMT series is backed by a 1 Year Warranty. The purchaser is responsible for compatibility of the media, functional adequacy and correct installation of the transmitter.

If you require a customized solution for your program contact our sales team.