## PROCESS PRESSURE TRANSMITTER - BF2



# RELIABLE MEASUREMENT OF PROCESS PRESSURE

- Compact and robust construction
- Piezo-resistive steel sensor
- Zero and range adjustable with internal potentiometer
- RS-485
- Compatible to software SW21
- IP protection IP63/IP65







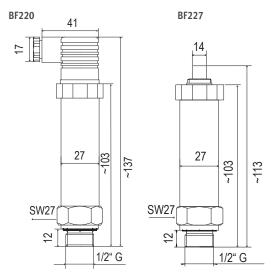
#### **Measurement of Process Pressure**

Pressure transmitters measure the pressure of neutral gases and nitrogen in piping and closed containers. The pressure of the medium being measured acts on a pressure cell, which converts the pressure into an electronic signal.

#### **Field of Application**

The process pressure transmitters are ideal for measurement of absolute pressure in applications with fast temperature changes and in compressed air, HVAC and pneumatic systems.

### Dimensions (mm)



Terminal Assignment / Connection Diagram

BF220 2-Wire							
Hirschman Plug (DIN 43650)							
		PIN	Description	Wire Color (Internal)			
	V+	1	Power supply +	Black			
	Out –	2	Analog output -	Red			
	nc	3	Not connected				
	PE	$\oplus$	Ground				

BF227 2-Wire/RS-485						
7-Pin Plug						
		PIN	Description	Wire Color (Internal)		
-2 -1	V+	1	Power supply +	Black		
( -5-4-3 )	Out-	2	Analog output –	Red		
	RS-485B	5	Digital output+	White		
	RS-485A	4	Digital input –	Yellow		

Technical Data	BF220	BF227			
Device type	Process pressure transmitter				
Parameters	Absolute pressure				
Housing material	Stainless steel (1.4878)				
Diaphragm	Stainless steel (1.4404)				
IP protection	IP65	IP63			
Mounting position	90° to pressure pipe (max. 30° inclination)				
Dimensions	137 x 41 x 27 mm	113 x 14 x 27 mm			
Weight	Approx. 220 g	Approx. 235 g			
Pressure connection	G ½" male thread				
Seal ring	Viton				
Electrical connections	Hirschmann (DIN 43650)	7-pin			
Power supply	1530 VDC	1028 VDC			
Range of application	-3080 °C	-4080°C			
Storage conditions	-3080 °C	-4080°C			
CE / EMC compatibility	EMC Directive 2004/108/EC, EN 61326				
Absolute Pressure Measuren	nent				
Measurement principle	Piezo-resistive steel sensor				
Measurement range	010 bar				
Pressure resistance	15 bar				
Medium	Air and non-aggressive gases				
Accuracy at 20°C ±2 K (linearity, hysteresis, repeatabi- lity, deviation of start and end value of the measurement range)	±0.25 % FS max.	±0.25 % FS max.			
TK zero	±0.03 %FS/K				
TK range	±0.03 %FS/K				
Long-term stability	±0.2 % full scale / year				
Outputs					
Analog	420 mA	420 mA			
Digital	-	RS-485			
Permissible load	<750 Ω	<900 Ω			

Would you like more information? You can find a complete, up-to-date overview of our probes on the internet at www.rotronic.com.

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