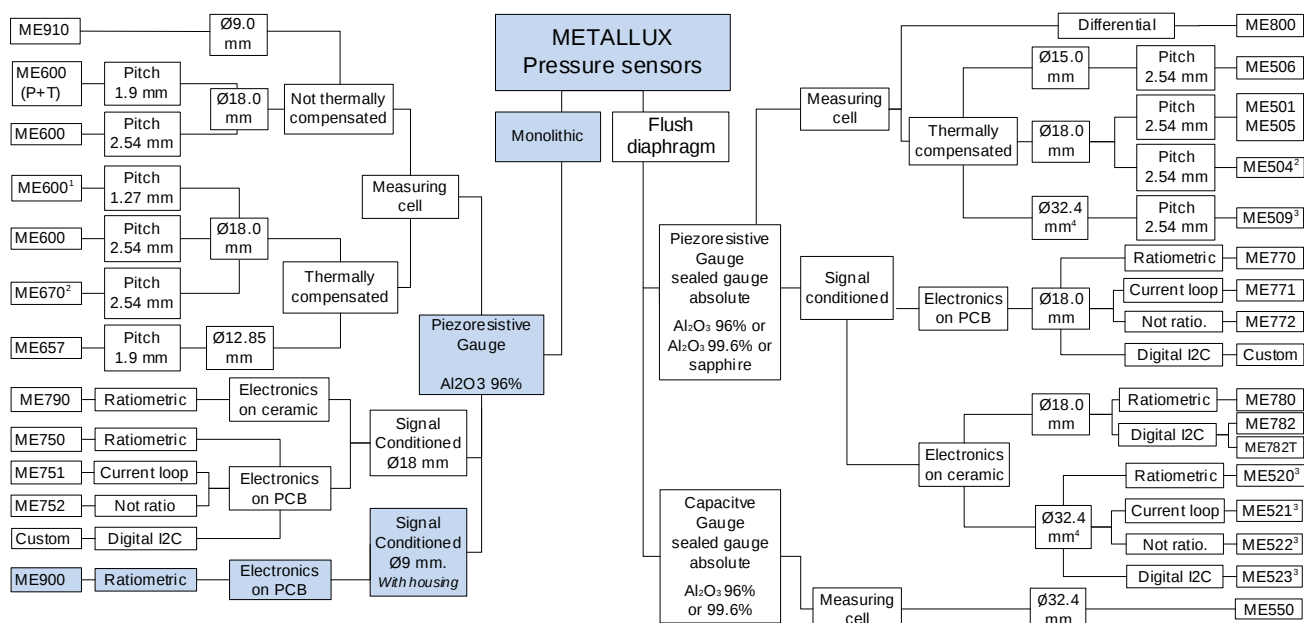
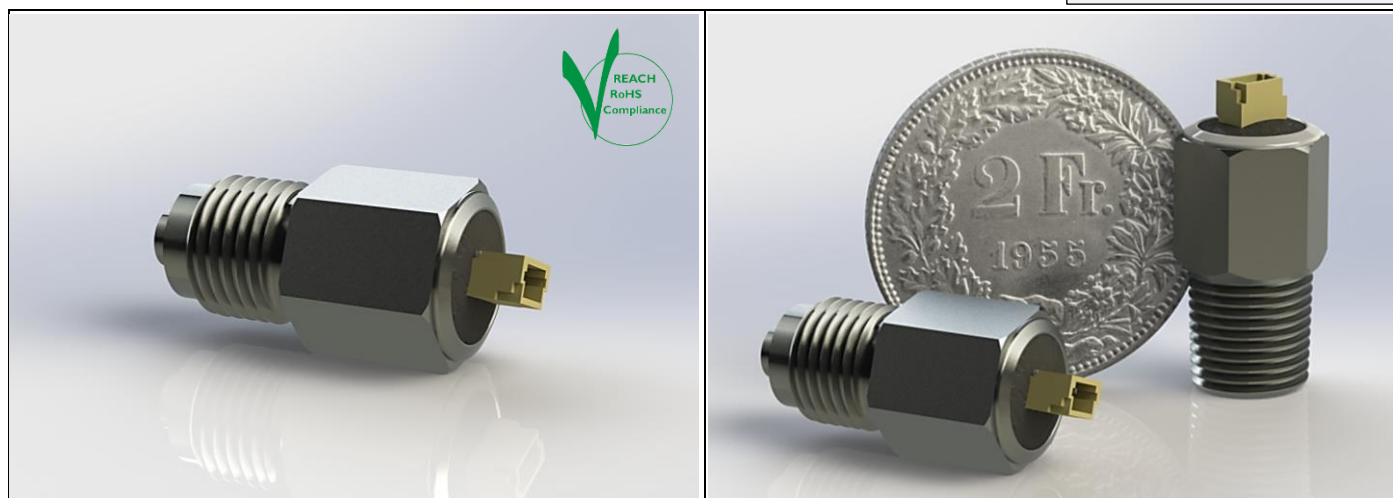


Due to the excellent chemical resistance of the the Al_2O_3 ceramic, the ME900 sensors are suitable for nearly all aggressive media.

EMC compliant

⁴ Suitable for low pressure range (≤ 1 bar)

Technical features

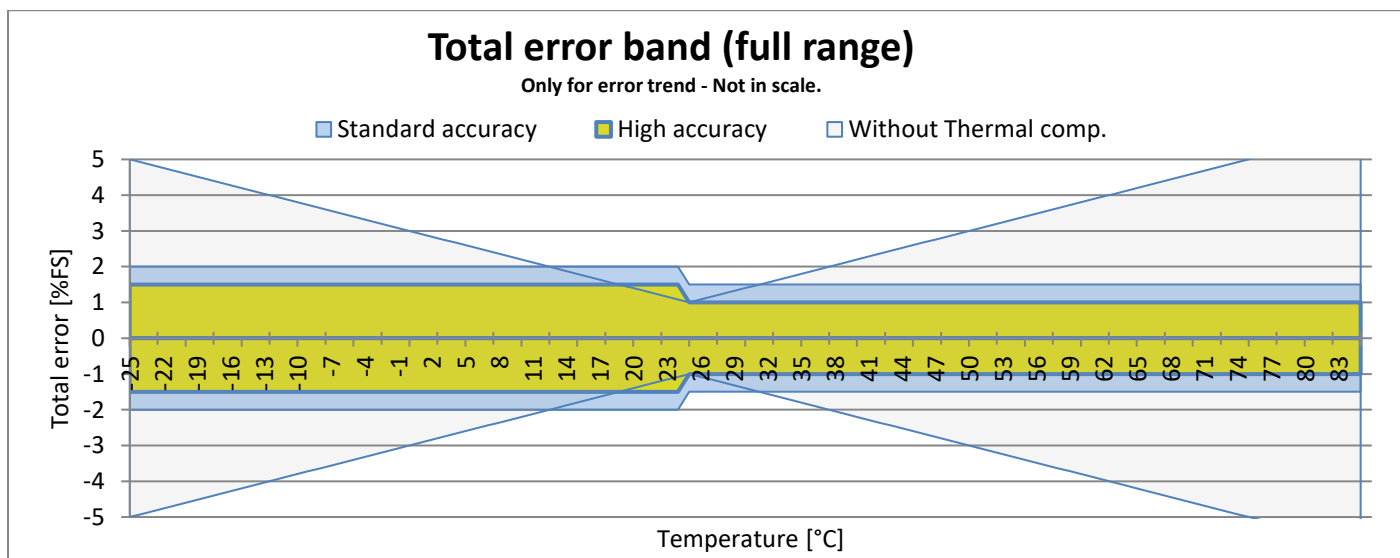
Parameters	Units	ME900 / MEP900
Output	-	Ratiometric
Output range	-	0.5...4.5 [V]
Sensor type	-	Monolithic, gauge
Technology	-	Piezo-resistive with electronic signal conditioning
Material	-	Sensor : ceramic Al ₂ O ₃ 96% Housing : stainless steel AISI 316L (EN 1.4404)
Weight	g	≤ 10 (without cable)
Response time	Ms	≤ 5
Supply voltage	VDC	4.5...5.5
Max current ¹	mA	6 (R _{LOAD} ≥ 2 kΩ)
Operating temp.	°C	-20...+85 (-4 °F...+185 °F)
Storage temp.	°C	-25...+90 (-13 °F...+194 °F)
Compliant with	-	REACH, RoHS, Conflict Minerals free
EMC / ESD ²	-	Electrostatic discharge EN 61326-1(2013) / IEC/EN 61000-4-2(2009) Radiated electromagnetic field EN 61326-1(2013) / IEC/EN 61000-4-3(2006) Electrical fast transient burst EN 61326-1(2013) RF conducted disturbances EN 61326-1(2013) / IEC/EN 61000-4-6(2014)

Pressure range			ME900 / MEP900			
Nominal	ME	bar	10	20	50	100
Pressure ³	MEP	psi ⁴	150	300	750	1500
Overload pressure		bar	35	35	100	160
		psi	507	507	1450	2320
Burst pressure		bar	40	40	120	180
		psi	580	580	1740	2610
Vacuum capability		bar	-1	-1	-1	-1
		psi	-14.5	-14.5	-14.5	-14.5

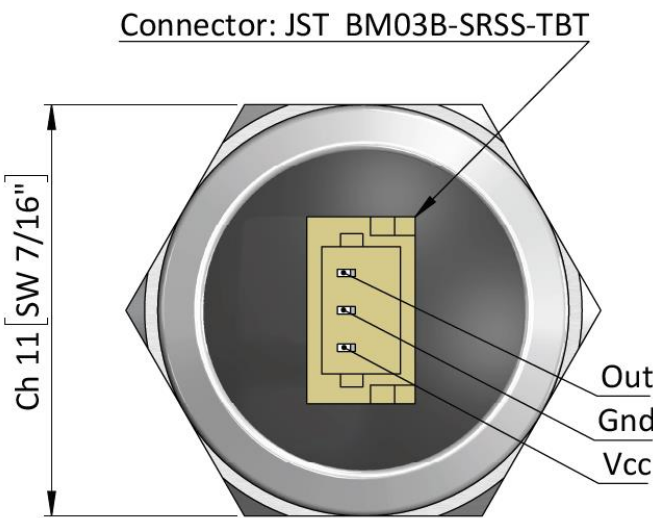
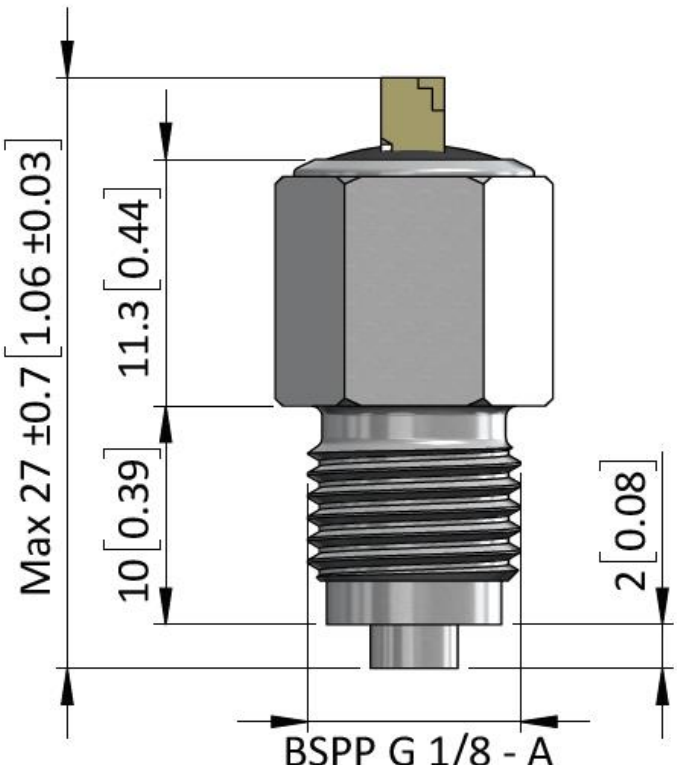
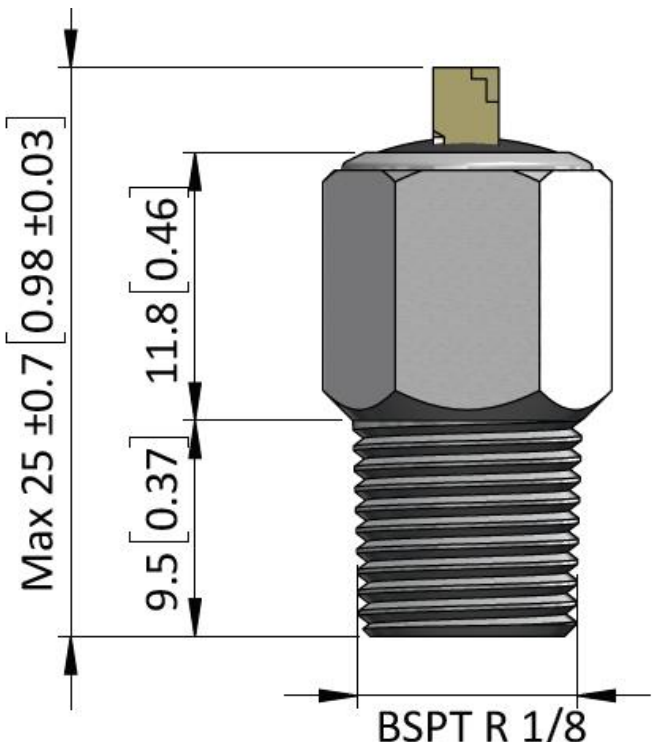
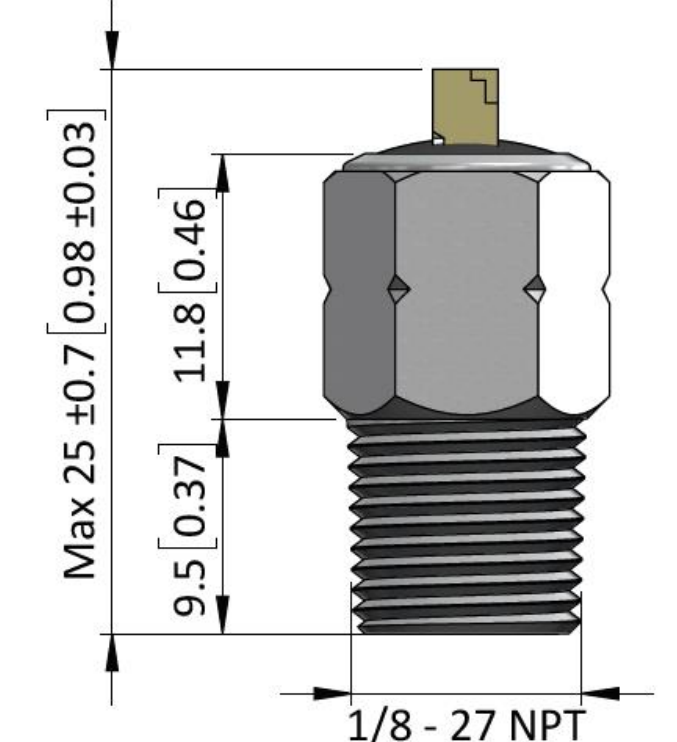
Accuracy ⁵ [%FS]	Calibration with high accuracy	
A) 25...85°C (77...185 °F)	2.0	1.0
B) -20...+25°C (-4...77 °F)	3.0	1.5
Accuracy ⁵ [%FS]	Calibration with standard accuracy	
A) 0...85°C (32...185 °F)	2.5	1.5
B) -20...+25°C (-4...77 °F)	3.0	2.0
Accuracy ⁵ [%FS]	Calibration without thermal compensation	
25°C (77 °F)	2.0	1.0
-20...85 °C (-4...185 °F)	Max ± 0.1 %FS/K (Ceramic cell thermal offset shift + thermal span shift) + Accuracy at 25°C	

Unless indicated, all data are based on a reference temperature of 25°C.

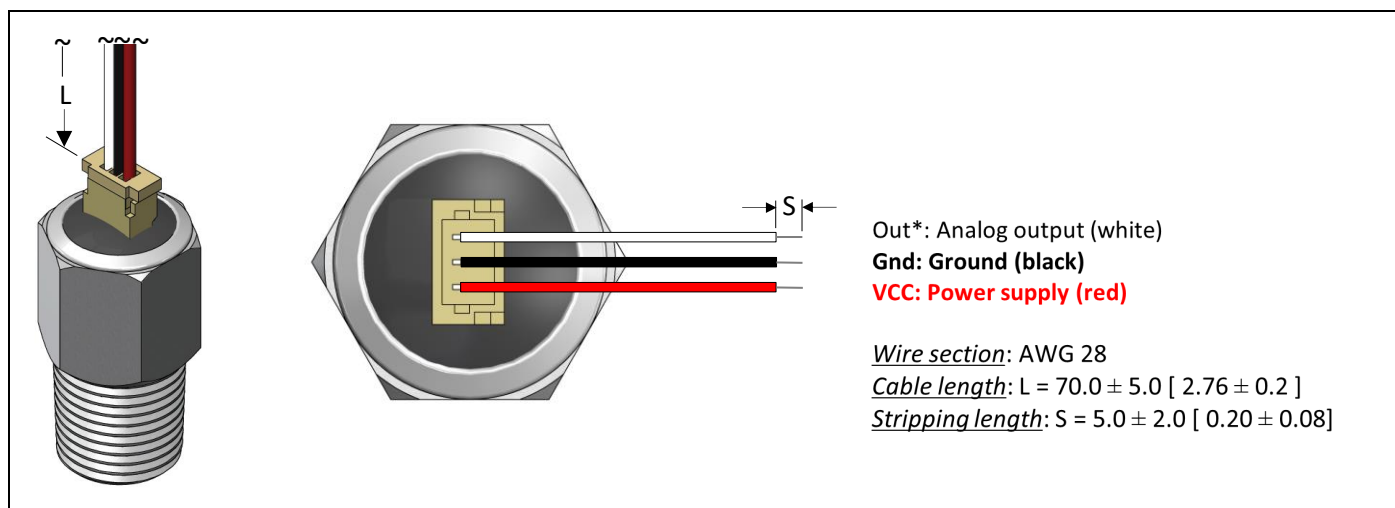
- During calibration or auto-zero, current consumption is < 30 mA.
- Housing must be grounded.
- Pressure ranges not shown specifically in the technical chart have performance of the nearest listed pressure range.
- Psi nominal pressure values are not the exact conversion of bar value. Psi ranges are defined to cover different standard values.
- Accuracy includes room temperature error of non-linearity, hysteresis and non-repeatability, offset and span deviation PLUS thermal span shift and thermal offset shift.



Mechanical drawings

Top view	Gas 1/8" BSPP (Cylindrical Thread)
 Connector: JST BM03B-SRSS-TBT Ch 11 [SW 7/16"] Out Gnd Vcc	 Max 27 ± 0.7 [1.06 ± 0.03] 11.3 [0.44] 10 [0.39] 2 [0.08] BSPP G 1/8 - A
Gas 1/8" BSPT (Conical Thread)	1/8"- 27 NPT (Conical Thread)
 Max 25 ± 0.7 [0.98 ± 0.03] 11.8 [0.46] 9.5 [0.37] BSPT R 1/8	 Max 25 ± 0.7 [0.98 ± 0.03] 11.8 [0.46] 9.5 [0.37] 1/8 - 27 NPT
All quotes are in mm [inch] – General tolerance ISO 2768-1 M	

Electrical terminations



Ordering code

	ME		-	900	---	-	-	
Pressure unit								
	bar			blank				
	psi			P				
Pressure range	ME		MEP		ME – MEP			
	0...10 bar	or	0...150 psi		010 – 150			
	0...20 bar	or	0...300 psi		020 – 300			
	0...50 bar	or	0...750 psi		050 – 750			
	0...100 bar	or	0...1500 psi		100 – 1500			
	Others on request (please specify)				999 – 999			
	Calibration							
High accuracy						0		
Standard accuracy						1		
No temperature compensation (calibration done at room temperature)						2		
Others on request (please specify)						9		
Termination type								
	Connector plus 70 mm cable						0	
	Only connector						1	
	Others on request (please specify)						9	
Mechanical connection								
	Gas 1/8" BSPP (cylindrical thread)						0	
	Gas 1/8" BSPT (conical thread)						1	
	1/8" 27 NPT (conical thread)						2	
	Other on request (please specify)						9	



To be disposed of according to local regulations (OTRif 16 02 97 for Switzerland, CER 16 02 16 for European Union)