This document and the information contained herein are property of Sensaggio srl and are not to be reproduced in any form or media without the expressed consent of Sensaggio

It is a ratiometric pressure device based on a piezoresistive ceramic technology.

Optimized design and economical advantage.

MADE IN ITALY UL CERTIFIED





* PERFOMANCES

Resistant to extreme temperatures, excellent hysteresis, high accuracy, fast response time and excellent surge resistance

* COMPATIBILITY

Suitable for HVACR refrigerant gases (portable applications), also for new gas HFO–1234yf,1234ze R407C - and related oils

* RESISTANCE

Suitable for critical application with aggressive fluids

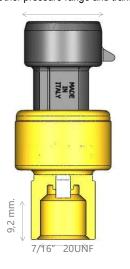
* FLEXIBILITY

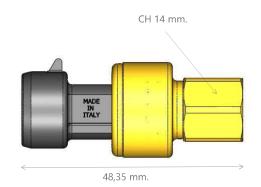
Customizable with different materials, connectors and transferfunction

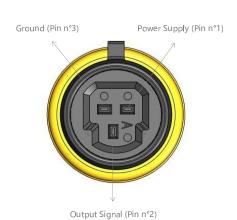
* COMPLIANCE

Compliant with Rohs and Reach Regulation

Other pressure range and transfer function are available on request







Pressure Pressure Over Burst **Pressure** [psia] [bar (abs)] pressur pressur Version Material range [bar (abs)] 90% Vdd 10% Vdd 90% Vdd 10% Vdd psi bar psi bar $0 \div 5,2$ 5,2 25 0 75.42 0 Female Brass 363 1595 110 $0 \div 10,3$ 0 149.39 0 10,3 435 30 1595 110 Female **Brass** $0 \div 13.8$ 0 200.15 13,8 38 110 0 Female Brass 551 1595 $1 \div 18.3$ 14.5 265.42 18,3 Female **Brass** 783 54 1595 110 $1 \div 21.7$ 14.5 314.73 21,7 Female **Brass** 900 62 1595 110 $1 \div 35,5$ 14.5 70 2494 110 514.88 35,5 Female **Brass** 1015 14.5 46 1320 91 172 1 ÷ 46 667.17 Female **Brass** 2494

SENSAGGIO PRESSURE SENSOR – www.sensaggio.com

	GENERAL FEATURES
Pressure ranges	0 to 5.2 bar (abs), through 1 to 46 bar (abs) (other pressure range and transfer function available on request)
Over pressure	25 to 91 bar (abs) typical
Burst pressure	Brass, min 110 bar (abs)
Pressure connection	7/16" 20UNF (other connections available on request)
Pressure connection material	Brass (other materials available on request)
Tightening torque	Brass, 12 to 16 Nm
Electrical connection	Packard connector (other connections available on request)
Electrical connection material	PBT GF30
	ELECTRICAL FEATURES
Power supply (Vdd)	5Vdc ± 10%. (Protected against polarity inversion and short circuit)
Supply current (Idd)	< 10 mA @ 5,5Vdc (8,5 mA typical)
Output voltage (Vout)	10% Vdd to 90% Vdd typical
Output current (lout)	5mA typical
Output load	20 KΩ min. (Pull-up or Pull-down)
Insulation resistance	1 GΩ @ 50Vdc
Output response time	10 ms typical
Power supply overvoltage	18Vdc
Reverse voltage	-14Vdc
	PERFORMANCE FEATURES
Operating temperature	-40°C to 135°C
Storage temperature	-40°C to 150°C
Accuracy	± 1,2% F.S. (linearity, hysteresis, repeatability and calibration) Static error band @ 25°C, 5.0Vdc
Temperature error	± 0,013% F.S./°C
Cycle life	10 millions F.S. cycles
IP code	IP67 (with connector female IP67 plugged)
Fluids compatibility	HVAC refrigerants, new HFO 1234ze refrigerant and associated oils. (other fluids compatibilities available on request)
Vacuum pressure (referred to refrigerant circuit)	0 bar (abs)
Drop (any axis)	1,5m
Vibration: IEC 60068-2-64:2008	12g (rms)
Shock: IEC 60068-2-27:2008	50g, 6ms
Weight	30 grams typical
	EMC FEATURES (standards CEI EN 61326-1:2013 and CEI EN 61326-2-3:2014)
Electrostatic discharge: CEI EN 61000-4-2:2011	±4KV contact ±8KV air
Radiated immunity: CEI EN 61000-4-3:2007	3V/m (80 MHz ÷ 1 GHz) 3V/m (1,4 GHz ÷ 2 GHz) 1V/m (2 GHz ÷ 2,17 GHz)
Electrical fast transient/Burst: CEI EN 61000-4-4:2013	±1KV
Surge: CEI EN 61000-4-5:2007	±1KV
Conducted immunity: CEI EN 61000-4-6:2014	3V (0,15 ÷ 80 MHz)

Note: F.S. (full scale): MAX output – Min output = 4V typical

