Pressure Transmitter with Ceramic Sensing Element

KOBOLD

SEN-86/87

- Measuring Ranges: -30" Hg...0 to 0...10000 PSIG
- Max. Media Temperature: 250°F
- DIN Accuracy Class: 0.5
- Materials: Stainless Steel, Ceramic, and NBR
- Connection Options: 1/4" NPT or 1/2" NPT
- OEM Targeted Product
- Shown with Optional Loop-Powered In-line Display Model AUF

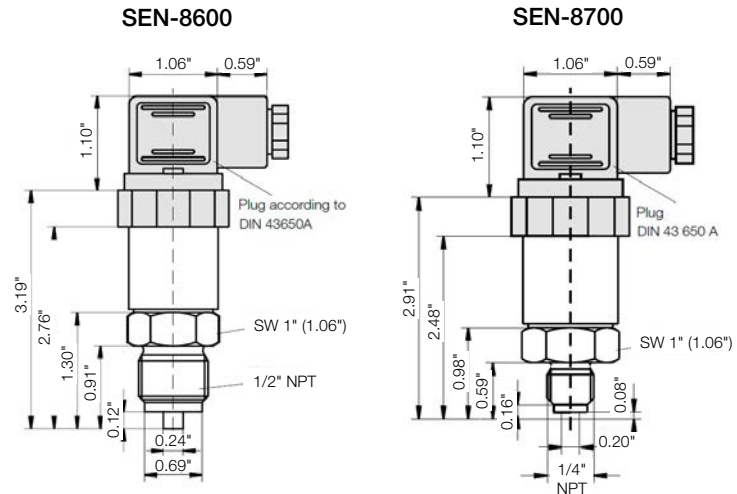01/06-18-2018

Description

The KOBOLD SEN-86/87 series pressure transmitters are cost-effective and contain a rugged ceramic sensing element. The SEN-86/87 series offers good accuracy, a compact reliable design and is well suited for OEM applications. The wetted materials are compatible with many different medias and the sensing technology can handle a variety of mechanical loads. These are widely used in the following applications: plant engineering, environmental engineering, machine building, and cooling circuits.

Technical Data

Technology:	Internal Diaphragm
Pressure Type:	Gauge Pressure
Housing:	303 Stainless Steel
Connection:	1/4" or 1/2" NPT, 304 Stainless Steel
Sensor Element:	Piezo-resistive Ceramic (Al_2O_3)
Measuring Principle:	Thick Film Technology (DMS)
O-Ring:	NBR (Others upon Request)
Max. Temperature:	
Storage:	-22 ... 212 °F
Media:	-4 ... 250 °F
Ambient:	-22 ... 212 °F
Pressure Limitation:	< 870 PSIG: 2 x Range
	> 870 PSIG: 1.5 x Range
Accuracy Class:	0.5
Repeatability:	≤ ± 0.15 % of FS
Characteristic Deviation:	≤ ± 0.3 % of FS
Stability (Per Year):	≤ ± 0.2 % of FS
	(Under Reference Conditions)
Electrical Connection:	Plug According to DIN 43 650 A,
	Plug M12x1, Cable Connection

Auxiliary Power:	15 ... 32 V_{DC}
Output:	4 - 20 mA (2-wire), 0 - 10 V_{DC}
Load (Ω):	≤ (U_B-15V) / 0.02 A (for 4 - 20 mA)
Response Time:	≤ 1 ms (within 10 - 90 % of f/s)
Compensated Range:	-13 ... 185 °F
Temperature Drift:	Zero Point: ≤ ± 0.02 % FS/K
	Span: ≤ ± 0.01% FS/K
Protection:	IP 65

Dimensions

SEN-8600

SEN-8700

Order Details (Example: **SEN-8600N4 0 P025**)

Process Connection	Model Number	Output Signal	Measuring Range
1/2" NPT	SEN-8600N4..	..0.. = 4 - 20 mA, 2-Wire ..2.. = 0 - 10 V	..H315 = -30...0 in Hg ..P025 = 0...15 PSIG ..P045 = 0...30 PSIG ..P055 = 0...50 PSIG ..P060 = 0...60 PSIG ..P065 = 0...100 PSIG ..P075 = 0...150 PSIG ..P085 = 0...200 PSIG ..P090 = 0...300 PSIG ..P095 = 0...400 PSIG ..P100 = 0...500 PSIG ..P105 = 0...600 PSIG
1/4" NPT	SEN-8700N2..		..P115 = 0...1000 PSIG ..P125 = 0...1450 PSIG ..P130 = 0...2000 PSIG ..P135 = 0...2300 PSIG ..P140 = 0...3000 PSIG ..P145 = 0...3600 PSIG ..P150 = 0...5000 PSIG ..P155 = 0...5800 PSIG ..P160 = 0...7500 PSIG ..P165 = 0...10000 PSIG

AUF Display Option

Order Details

Model	Description
AUF-1000	Standard Plug-on Display, 4 -20 mA, 2-wire
AUF-1001	Plug-on Display with Open Collector, 4 -20 mA, 2-wire

See model AUF product datasheet for further technical details