

PHC864

- Thick film ceramic sensor.
- All stainless steel housing.
- Ranges from 0-1 bar to 0-60 bar.
- Output 4-20mA 2Wire.
- Supply voltage from 8.5V to 30Vdc.
- Protected to IP67.

CE RoHS

Description

The PHC864 pressure transmitter incorporates the highly stable ceramic thick film pressure diaphragm. They offer outstanding chemical, corrosion and abrasion resistance, and provide wide range of operating temperature -40 ~+135°C.

Applications for PHC864 include the continuous monitoring of oil, gas, water and other liquids in the process. They also apply in the measurement and control of pressure in refrigeration, compressor, and engine monitoring system.

The PHC864 Pressure Transmitter is available in pressure ranges from 0-1 bar to 0-60 bar gauge. an outputs signal of 4-20mA (2 wire) is standard.

Technical data

Output signal	4-20mA
Input	
Pressure ranges	0-1 bar to 0- 60 bar
Pressure reference	Gauge
Over pressure	See table bellow
Burst pressure	See table bellow
Output	
Span	4-20mA
Zero offset	$< \pm 0.13\% \text{FSO}$
Resolution	Infinite
Type	2 wire
Accuracy *	$< \pm 0.25\% \text{FSO}$
Long term stability	$\pm 0.2\% \text{FSO} / \text{per year}$
Electrical	
Supply voltage	8.5 - 30Vdc
Supply voltage effects	$0.012\% \text{FSO} / \text{V}$
Power requirements	-----
Load driving capability	1075Ω 30Vdc
Reverse polarity	Protected
Output short circuit	No damage
Misconnection	Protected
Insulation resistance	$100M \Omega$ 100Vdc
Response time	$< 1 \text{ms}$
Environmental	
Operating temperature range	-40 to +135°C-Media -20 to +80°C-Ambient
Storage temperature range	-40 to 85°C
Thermal zero shift	$0.035\% \text{FSO} / ^\circ\text{C}$
Thermal sensitivity shift	$0.035\% \text{FSO} / ^\circ\text{C}$
Vibration tolerance	10g's to 50Hz
Mechanical shock	15g(11mS)
Operating humidity	95% RH
Physical	
Pressure media	Stainless steel 316 / Ceramic AL_2O_3
Pressure connection	R 1/ 4"
Housing material	Stainless steel 316
Electrical connection	Shielded cable AWG26 UL No.2464 1m / 2m
Enclosure rating	IP67
Natural frequency	12KHz Ceramic
Weight	100 - 130grams approx
CE Conformity	EN61326 - 1 (2013) ,CISPR11 IEC / EN61000 - 4 - 2 (2009) / -3 (2006+A2:2010) / -8 (2010)

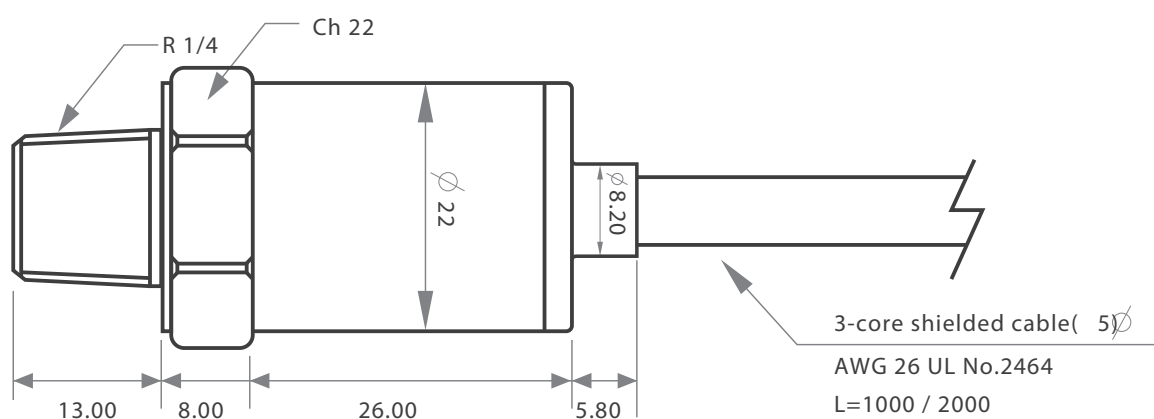
FSO $\Rightarrow$ Full Scale Output.

Accuracy * $\Rightarrow$ Combined non-linearity, hysteresis and repeatability.

Pressure ranges

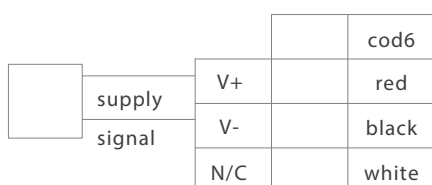
Ranges(bar)	1	1.6	2	2.5	4	6	10	16	20	25	40	60
Over pressure(bar)	3	4	4	10	10	20	50	50	100	100	100	180
Burst pressure(bar)	4	5	5	12	12	25	70	70	120	120	120	220

Dimensions : mm

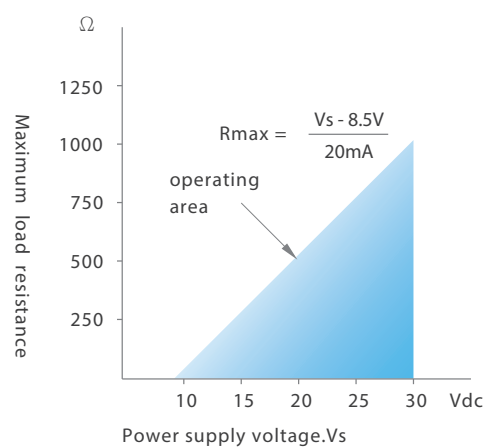


Electrical connection diagrams

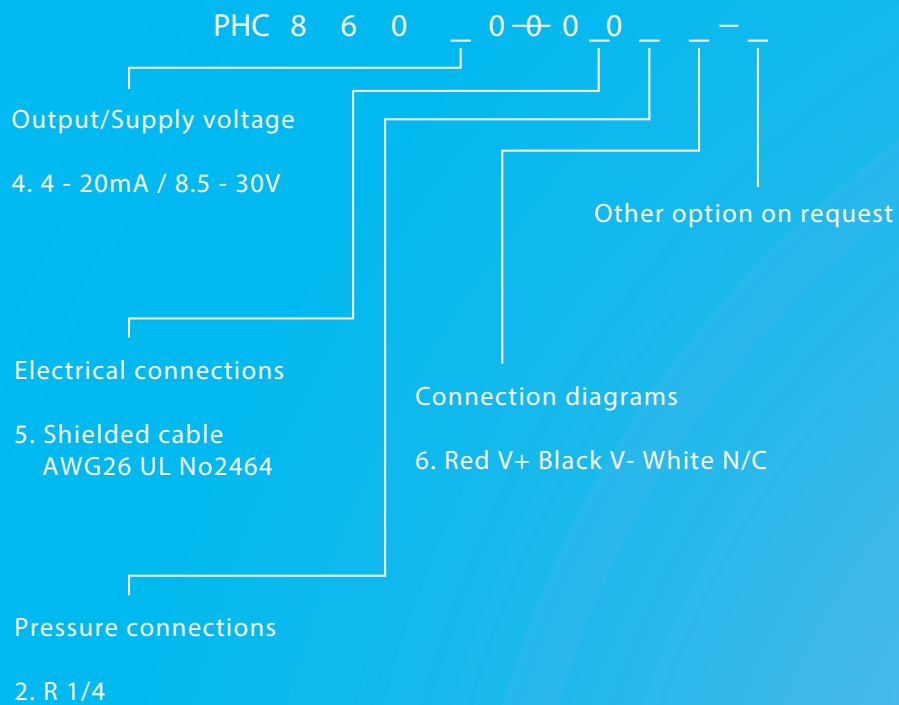
Transmitter : 4-20mA output



Load driving chart (4-20mA)



Ordering information



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