

HIGH TEMPERATURE PRESSURE TRANSMITTER

SERIES 25 HTC

FOR BIOTECHNOLOGY / FOOD-INDUSTRIES

This piezoresistive high temperature transmitter (-transducer) is suited for media temperatures up to 300°C. The pressure, acting onto the flush diaphragm, is transferred over an oil-filled capillary onto the silicon measuring cell. The capillary has the function of a cooling spiral. When measuring media with temperatures of 300°C, the temperature at the silicon cell only increases by 100°C. The integrated amplifier electronics provide a voltage- or current signal proportional to the pressure.

For highly aggressive media, KELLER offers pressure ports in different materials.

SPECIFICATIONS

PA(A) 25HTC	PAA: Zero at Vacuum PA: Zero at ≈1 bar absolute								
PR-25HTC	PR: Vented Gauge								
Pressure Ranges	0,2	0,5	1,0	2,0	5,0	10	20	25	bar
Overload	2,5	2,5	3,0	5,0	7,5	15	30	30	bar

PA(A) 25HTC	PAA: Zero at Vacuum PA: Zero at ≈1 bar absolute							
Pressure Ranges	50	100	200	400	600	1000	bar	
Overload	75	150	300	500	700	1100	bar	

Linearity Error	<0,5%FS (optional 0,2% FS and 0,1 % FS)
Media Temperature	25...300 °C
T.C. of Zero	<0,03%FS/°C
T.C. of Sensitivity	<0,02%FS/°C
Frequency Range	typ. 50 Hz (function of media temperature)
Insulation	>10 MΩ @ 50 V

Excitation	3-Wire 13...28 V	2-Wire 10...28 V
Output	0...10 V / 0...20 mA	4...20 mA
Load Resistance (R _Ω)	>5k	(U-10 V)/0,02 A

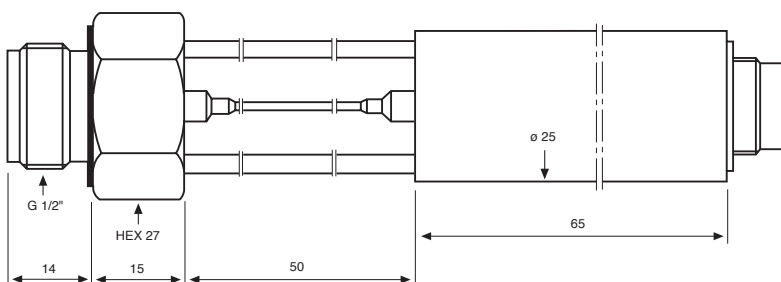
Pressure Connection	G 1/2", G 3/4"
Material in Media Contact	Stainless Steel 1.4435 (316 L)
Length of Colling Spiral	50 mm
Electrical Connection	Binder Plug Series 723
Weight	≈ 220 g

Mounting: Horizontal position (carrying-off of heat).
Cooling spiral exposed to room temperature.

Options: Programmable (25 HTC-PRO).
Others on request.



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ELECTRICAL CONNECTIONS

	3-Wire	2-Wire
1: white	GND	
2: red	+OUT	OUT/GND
3: black	+Vcc	+Vcc