

SERIES 25 HTC



HIGH TEMPERATURE PRESSURE TRANSMITTER 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		

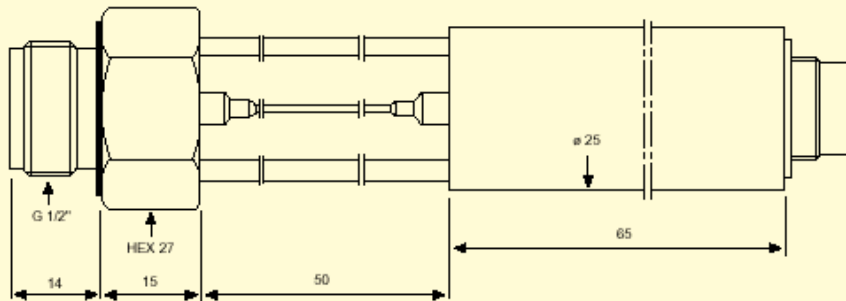
Linearity Error	<0,5%FS (optional 0,2%FS and 0,1%FS)
Media Temperature	25...300°C
T.C. of Zero	<0,03%FS/ °C
T.C. of Sensitivity	<0,02%FS/ °C
Frequency Range	typ. 50 Hz (function of media temperature)
Insulation	>10 M@ 50 V

Excitation	<u>3-Wire</u> 13...28 V	<u>2-Wire</u> 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

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

SUBJECT TO ALTERATIONS