



## AHI6000 Hispec®

High Temperature Pressure Transmitter



## SPECIFICATIONS

- High ambient temperatures up to 150°C
- Silicon-on-Sapphire sensor technology or outstanding performance
- Pressure ranges up to 1,500 bar
- Titanium wetted parts for excellent chemical compatibility
- High thermal stability over wide temperature range
- High accuracy version available
- Compact design



The AHI6000 pressure transmitter series performs at constant media and ambient temperatures of up to 135°C and for limited periods up to 150°C.

The compensated temperature range is from -25°C to +135°C. Available in a range of outputs, and pressure ranges, and with a high accuracy option, it is our most flexible high temperature product.





DIMENSIONS (in mm)





## TECHNICAL DATA

Туре:	AHI6xx0	AHI6xx1	AHI6xx2	AHI6xx3				
Sensor Technology:	Silicon-on-Saphire							
Output Signal:	0.5 - 4.5 V ratiometric (4 wire)	0 - 5 V (4 or 3 wire)	0 - 10 V (4 or 3 wire)	4-20 mA (2 wire)				
Supply Voltage:	4.8 - 5.5 VDC	10 - 32 VDC	12 - 32 VDC	10 – 36 VDC				
Pressure Reference:	Gauge							
Protection of Supply Voltage:	Reverse polarity, overvoltage up to 36VDC							
Standard Pressure Ranges (bar):	0 -1 bar Vac; 0-0.5 bar; 0-1 bar; 0-2.5 bar; 0-6 bar; 0-10 bar; 0-16 bar; 0-25 bar; 0-100 bar; 0-250 bar; 0-400 bar; 0-600 bar; 0-1,000 bar; 0-1,500 bar (other ranges available)							
Standard Pressure Ranges (psi):	0-30 in Hg; 0-7.5 psi; 0-15 psi; 0-30 psi; 0-100 psi; 0-150 psi; 0-200 psi; 0-300 psi; 0-1,500 psi; 0-3,000 psi; 0-6,000 psi; 0-8,700 psi; 0-15,000 psi; 0-15,000 psi; 0-20,000 psi (other ranges available)							
Overpressure Safety:	2x for up to 600bar ranges, 1.5 for up to 1000bar, 1.1 for 1500bar range							
Load Driving Capability:	≥ 4.5k	≥ 5k	≥ 10k	RL < [UB - 10 V] / 20 mA (e.g. with supply voltage (UB) of 36 V, max. load (RL) is 1300 $\Omega$ )				
Accuracy NLHR:	$\leq$ ±0.25 % of span BFSL (Optional higher accuracy version of $\leq$ ±0.1 % of span BFSL available*)							
Zero Offset and Span Tolerance:	±0.02 V at room temperature							
Operating Ambient Temperature:	-40°C to +135°C, up to +150°C for 10 mintes on rare occasions. Compensated temperature range -25 to 135°C							
Operating Media Temperature:	-40 °C to 135 °C (-40 °F to +275 °F)							
Storage Temperature:	+5 °C to +40 °C (+41 °F to +104 °F) Recommended Best Practice							
Temperature Effects:	Cumulative error $< \pm 0.5\%$ FS (TEB)							
Electromagnetic Compatibility:	EN61000-6-2; EN61000-4-2: Electrostatic discharge: contact $\pm$ 4kV, air $\pm$ 8kV; EN61000-4-4: Fast Transients $\pm$ 4kV signal port; EN61000-4-5: Surges $\pm$ 0.5kV Line to Line; EN 61000-4-6: Disturbances 10V eff 0.15MHz - 80MHz. Certification: CE marked							
Insulation Resistance:	> 100 MΩ @ 50 VDC							
Wetted Parts:	Titanium alloy measurement cell and wetted parts							
Pressure Media:		All fluids compatible	e with titanium alloy					
Pressure Connection:	AS4395B-E04 (7/16-20 UNJF- 3A) other options available							
Electrical Connection:	D38999; shell size 9, 6 pin, pattern 35 or PTFE insulated flying lead, conductor size 7/0.1 mm (other options available)							
Net. Weight (Kg):								

<sup>\*</sup> At room temperature



## ORDER MATRIX

	Electrical Connection	Wires	Туре	Options	Pressure Range	Process Connection
0.5-4.5 V ratiometric	Cable outlet 1m screened IP67 protection	4	AHI6000			
	D38999 6 pin connector	4	AHI6010			
0-5 V	Cable outlet 1m screened IP67 protection	4	AHI6001			
	D38999 6 pin connector	4	AHI6011			
	Cable outlet 1m screened IP67 protection	3	AHI6301			
	D38999 6 pin connector	3	AHI6311			
0-10 V	Cable outlet 1m screened IP67 protection	4	AHI6002			
	D38999 6 pin connector	4	AHI6012			
	Cable outlet 1m screened IP67 protection	3	AHI6302			
	D38999 6 pin connector	3	AHI6312			
4-20 mA	Cable outlet 1m screened IP67 protection	2	AHI6003			
Options No special options	D38999 6 pin connector	2	AHI6013	-		
Options No special options Pressure Range in bar		2	AHI6013			
Options No special options Pressure Range in bar 0-1 bar Vac		2	AHI6013	-	V001	
Options No special options Pressure Range in bar O-1 bar Vac O-0.5 bar		2	AHI6013		00.5	
Options No special options Pressure Range in bar 0-1 bar Vac 0-0.5 bar 0-1 bar		2	AHI6013		00.5 0001	
Options  No special options  Pressure Range in bar 0-1 bar Vac 0-0.5 bar 0-1 bar 0-2.5 bar		2	AHI6013	-	00.5 0001 02.5	
Options No special options Pressure Range in bar 0-1 bar Vac 0-0.5 bar 0-1 bar 0-2.5 bar		2	AHI6013		00.5 0001 02.5 0006	
Options No special options Pressure Range in bar 0-1 bar Vac 0-0.5 bar 0-1 bar 0-2.5 bar 0-6 bar 0-10 bar		2	AHI6013		00.5 0001 02.5 0006 0010	
Options No special options Pressure Range in bar 0-1 bar Vac 0-0.5 bar 0-1 bar 0-2.5 bar 0-6 bar 0-10 bar		2	AHI6013	-	00.5 0001 02.5 0006 0010 0016	
Options No special options Pressure Range in bar 0-1 bar Vac 0-0.5 bar 0-1 bar 0-2.5 bar 0-6 bar 0-10 bar			AHI6013		00.5 0001 02.5 0006 0010	
Options No special options Pressure Range in bar 0-1 bar Vac 0-0.5 bar 0-1 bar 0-2.5 bar 0-10 bar 0-16 bar 0-16 bar 0-25 bar			AHI6013		00.5 0001 02.5 0006 0010 0016 0025	
Options No special options Pressure Range in bar 0-1 bar Vac 0-0.5 bar 0-1 bar 0-2.5 bar 0-6 bar 0-10 bar 0-16 bar 0-16 bar 0-15 bar 0-150 bar			AHI6013		00.5 0001 02.5 0006 0010 0016 0025 0100	
Options No special options Pressure Range in bar 0-1 bar Vac 0-0.5 bar 0-1 bar 0-2.5 bar 0-10 bar 0-16 bar 0-16 bar 0-16 bar 0-16 bar 0-25 bar 0-100 bar 0-250 bar			AHI6013		00.5 0001 02.5 0006 0010 0016 0025 0100 0250	
Options No special options Pressure Range in bar 0-1 bar Vac 0-0.5 bar 0-1 bar 0-2.5 bar 0-6 bar 0-10 bar 0-16 bar 0-16 bar			AHI6013		00.5 0001 02.5 0006 0010 0016 0025 0100 0250 0400	

Order Number Example

AHI6000-1500FN

For options not listed please contact the sales team

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