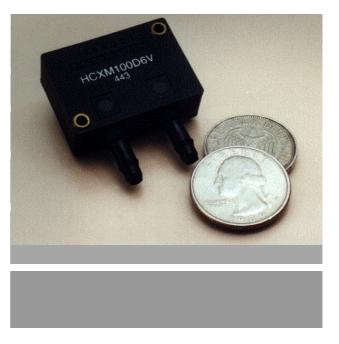
HCX...A6 / HCX(M)...D6 - Series Fully signal conditioned pressure transducer

FEATURES

- Pressure ranges from ±5 mbar to 5 bar differential, 1 and 2 bar absolute
- · TTL power supply
- · 0.5 to 4.5 V output
- · Inline pinning for easy PCB-mounting
- · Externally adjustable offset and span

SERVICE

Non-corrosive, non-ionic working fluids, such as dry air and dry gases.



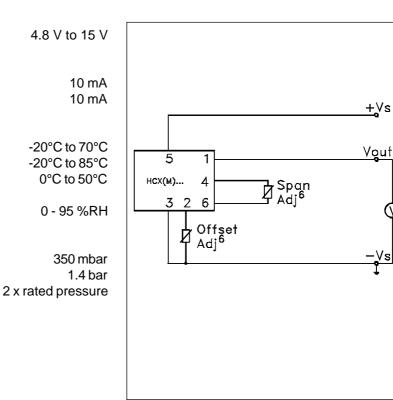
- 1 inch

GND

ELECTRICAL CONNECTION

— 1cm

Scale: ⊢



SPECIFICATIONS

Maximum ratings Excitation voltage

Temperature limits Operating

Compensated

Storage

Proof pressure¹

all HCX...

HCXP...M005, HCX...M010

HCXM050 to HCXM350

Humidity

Output current Source

Sink

January 1998/026



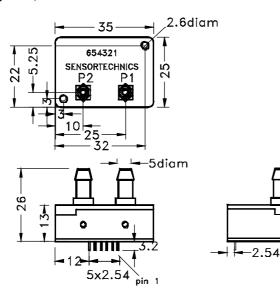
HCX...A6 / HCX(M)...D6 - Series Fully signal conditioned pressure transducer

PERFORMANCE CHARACTERISTICS

(unless otherwise noted, $V_s = 5 V$, $R_1 > 100 k\Omega$, $t_{amb} = 25^{\circ}C$)

Characteristics	Min.	Тур.	Max.	Unit	
Operating pressure HCXPM005D6	-5		5		
HCXM010D6	0		10		
HCXPM010D6	-10		10	mbar	
HCXM020D6	0		20		
HCXM050D6	0		50		
HCXM100D6	0		100		
HCXM350D6	0		350		
HCX0016	0		1000		
HCX0026	0		2000		
HCX0056	0		5000		
Zero pressure offset all HCXPM	2.40	2.50	2.60		
HCXM010D6/HCXM020D6	0.40	0.50	0.60	V	
all other devices	0.45	0.5	0.55		
Span⁵	3.95	4.0	4.05		
Full scale output		4.5			
Output at lowest specified pressure HCXPM only		0.5			
Non-linearity and hysteresis (BSL) ² HCXM020D6		0.5	1.0	%FSO	
all other devices		0.1	0.5		
Thermal effects (0 to 50°C) ⁴					
Combined offset and span					
HCXPM005D6			0.20		
HCXM010D6 to HCXM050D6			0.12	%FSO/°C	
HCXM100D6			0.10		
all other devices			0.05		
Output impedance			50	Ω	
Long term stability ³		±0.2		%FSO	
Power supply rejection					
Offset		0.05		%FSO/V	
Span		0.03		%F30/V	
Power consumption		50		mW	

OUTLINE DRAWING HCX(M)...6H, HCXPM...6H



Mass: 14 g



January 1998/026

P1: High pressure port for 5 mbar and 10 mbar devices

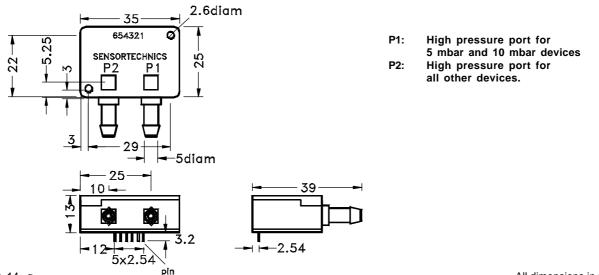
P2: High pressure port for all other devices.

HCX...A6 / HCX(M)...D6 - Series Fully signal conditioned pressure transducer

All dimensions in mm

OUTLINE DRAWING





Mass: 14 g

ORDERING INFORMATION

	Part Number Package version		
Pressure range	Side facing ports	Top facing ports	
Differential / gage devices			
0 to ±5 mbar	HCXPM005D6V	HCXPM005D6H	
0 to 10 mbar	HCXM010D6V	HCXM010D6H	
0 to ±10 mbar	HCXPM010D6V	HCXPM010D6H	
0 to 20 mbar	HCXM020D6V	HCXM020D6H	
0 to 50 mbar	HCXM050D6V	HCXM050D6H	
0 to 100 mbar	HCXM100D6V	HCXM100D6H	
0 to 350 mbar	HCXM350D6V	HCXM350D6H	
0 to 1 bar	HCX001D6V	HCX001D6H	
0 to 2 bar	HCX002D6V	HCX002D6H	
0 to 5 bar	HCX005D6V	HCX005D6H	
Absolute devices			
0 to 1 bar	HCX001A6V	HCX001A6H	
0 to 2 bar	HCX002A6V	HCX002A6H	

Specification Notes

- Proof pressure is the maximum pressure which may be applied without causing damage to the sensing element.
- 1. 2. Non-linearity - the maximum deviation of measured output at constant temperature, from "BestStraight Line" through three points (offset pressure, full scale pressure and 1/2 full scale pressure).
- 3. 4. Change after one year or 1 million pressure cycles
- Thermal effects tested and guaranteed from 0°C to 50°C relative to 25°C. All specifications shown are relative to 25°C. Span is the algebraic difference between the output at full scale pressure and offset.
- 5. 6.
- Offset adjustment possible to lower values only. Do not trim for nominal value minus 150 mV. Span adjustment possible to lower pressure range (higher gain). Do not trim for more than 15% of full scale pressure

Sensortechnics reserves the right to make changes to any products herein. Sensortechnics does not assume any liability arising out of the application or use of any product or circuit described herein, neither does it convey any license under its patent rights nor the rights of others.

January 1998/026

