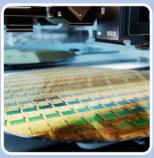
VPM-4 SmartPirani[™] LT Vacuum Transducer

Heat-loss MEMS Pirani gauge with 1.0E-6 to 13.3 mbar measuring range



Benefits & Features

- Measuring range of 7 decades from 1.0E-6 to 13.33 mbar
- Unmatched price-performance ratio
- Easy configuration with USB programmer
- 0-10 VDC programmable voltage output
- Digital RS-232 or RS-485 interface
- Optional Ceramic or Parylene sensor protection for corrosive applications
- Optional solid state setpoint relay for external controlling
- Pin and output compatibility with other vendors' gauges







Typical Applications

- Analytical Instrumentation
- Semiconductor Processing
- Vacuum fore-line
- PVD Coating
- Medical Instrumentation
- Space Simulation and Flight

Product Datasheet

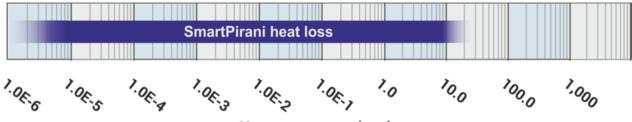


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Leading Technology

The VPM-4 SmartPirani[™] transducer offers best-in-class performance and has established new standards for vacuum measurement by extending the usable measuring range for thermal conductivity vacuum gauges by 1–3 decades.



Vacuum pressure in mbar

The SmartPirani[™] utilizes cutting-edge MEMS (Microelectromechanical Systems) sensor technology, combined with a novel precision digital signal processing architecture and advanced measurement algorithms. Enhanced by precision automated manufacturing and calibration processes, these elements create a unique product with uncompromised measurement performance.

Enabling use in Demanding Applications

For applications where sensors may be exposed to corrosive or aggressive gases, the SmartPirani[™] is available with a conformal protective coating that acts as an effective barrier.

Depending on the application, the SmartPirani[™] transducer series now offers an optional ceramic or Parylene protective barrier to prevent corrosion or oxidation of sensor materials.

Ceramic, known for its high corrosion resistance, is a proven material for vacuum sensor diaphragms in capacitance diaphragm gauges.

With the protective coating options, the new SmartPirani[™] transducers are well-suited for tough vacuum environments.

Parylene is a unique polymer with highly corrosion-resistant and hydrophobic properties. The Parylene barrier is designed for medical applications, including lyophilization and sterilization.

In some vacuum processes, particulates can damage vacuum gauges, and for these applications, the SmartPirani[™] transducers are offered with a protective baffle that acts as a barrier against macroscopic particles.

With the protective coating options, the new SmartPirani[™] transducers are well-suited for tough vacuum environments.

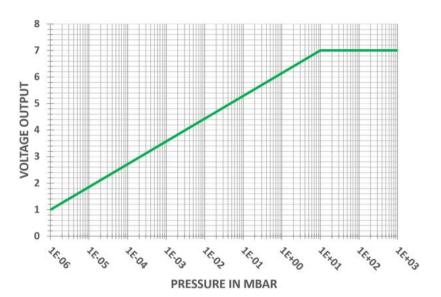


Measure and Control advanced Vacuum Processes

The VPM-4 SmartPirani[™] is engineered for best-in-class measurement and control of vacuum gas pressure. Several output options are providing more than just a pressure measurement signal.

Analog Voltage Output

The analog output voltage provides a signal for external readout or controls. The VPM-4 offers as standard a voltage output signal of 1VDC/decade mbar, Torr, or Pascal. Furthermore, it can also be user-configured or ordered preconfigured with a large selection of other analog output options that enables drop-in replacement of gauges from other vendors.



Digital Interface

The RS-232 and RS-485 serial interfaces can be used to transfer pressure and temperature measurement data to external equipment. The digital interface enables diagnostics, predictive maintenance, service, calibration, setpoint configuration, analog output scaling, and acquisition of real-time vacuum pressure measurements for on-screen visualization.

Reliable and Robust Setpoint Relay Control

The three independent solid-state switch relays can be used for external control of pumps, valves, safety interlock circuits, and other external equipment. The basic control uses on/off regulation with a programmable setpoint and hysteresis value. Each solid-state relay offers both normally closed and normally open contacts.

Compared to electromechanical relays, the solid-state relays provide superior reliability and faster switching times, with arc-free contacts and no EMI (electromagnetic interference) when switching. The SmartPirani[™] relays are designed to last and are UL listed, CSA recognized, and EN/IEC 60950-1 certified for maximum confidence when used to control critical vacuum processes and high-cycle applications.

Customized Settings

The VPM-4 transducer can be delivered with a custom configuration to meet specific application requirements, ready to work for a specific equipment installation out of the box. Examples of preconfigured options include measurement range, vacuum pressure unit, setpoint configuration, and output signal scaling.

Customized products will be assigned a unique part number for easy and simple future reordering.



Other Vendor Compatibility

The VPM-4 SmartPirani[™] transducer offers pin compatibility, analog voltage pressure signal emulation, and digital protocol emulation for vacuum transducers and transmitters from other vendors.

These emulation features enable a quick, seamless upgrade from traditional wired Pirani transducers, convection gauges, and legacy micro-Pirani transducers to next-generation vacuum transducers—without requiring changes to cabling or system software.

In many applications, replacing legacy vacuum gauges and transducers with the VPM-4 SmartPirani[™] results in both cost reductions and enhanced measurement performance.

Additionally, vendor emulation ensures compatibility with controllers and display units from other manufacturers.



Connect Digital through Supply Voltage Line

Traditionally, other vendors' transducers equipped with FCC68/RJ45/8P8C and Hirschmann connectors do not offer digital communication. The novel S4-Connect interface enables access to the digital core of the VPM-4 transducer through digital communication over the power supply line.

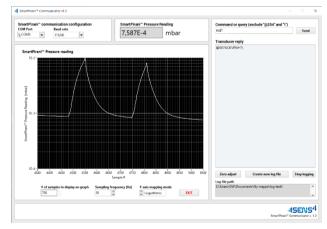
The S4-Connect USB communicator enables easy configuration of transducer settings, diagnostics, and calibration adjustments.

Datalogging and Analyzing

The SmartPirani[™] Communicator user software is a freeware package for Windows that offers real-time onscreen measurements and a comprehensive data-logger tool for logging measurement data to a file for storage, data analysis, or presentation.

The SmartPirani[™] Communicator is freeware software compatible with the SmartPirani[™] transducer series with RS-232 and RS-485 digital interfaces.

The SmartPirani[™] transducer, in combination with the power supply and USB converter, is a cost-effective data-logger package for characterizing vacuum system performance and rate-of-rise leak detection.





Typical Applications

The SmartPirani[™] is designed for reliable measurement and control of advanced vacuum processes and is suitable for a wide range of applications in both industry and science. A wide selection of VPM-4 configurations is available to meet the different requirements of various applications.

Analytical Instrumentation

Mass spectrometers and scanning electron microscopes are types of analytical equipment that use vacuum gauges to determine the safe operation of an ion source. In certain applications, the ultra-wide range of the SmartPirani[™] eliminates the need for additional, expensive high-vacuum ionization gauges.





Semiconductor Industry

Traditionally, convection-type wire Pirani vacuum gauges have been used in the semiconductor industry because of their resistance to corrosive gases. The new protective ceramic or Parylene sensor surface option expands the applicable applications for the MEMS Pirani-based vacuum transducers and is now a real performance upgrade alternative to legacy convection vacuum gauges.

Physical Vapor Deposition

Coating materials using physical vapor deposition (PVD) processes are common in many diverse industries, including solar, medical, automotive, tooling, optics, and packaging. The SmartPirani[™] is available with a usercleanable integrated particulate baffle system specially designed for PVD applications. This baffle system is designed to block particulates while ensuring sufficiently high vacuum gas conductance and preventing clogging. The innovative baffle feature can increase the time between service intervals and enhance equipment uptime. Furthermore, in certain PVD applications, the extended range of the SmartPirani[™] eliminates the need for cold cathode vacuum gauges for base pressure verification.





Fore-line Vacuum Pressure Switch

The VPM-4 features up to three user-programmable setpoint relays, allowing it to provide pressure switch signals to external equipment. With configurable setpoints, the VPM-4 can monitor and surveillance fore-line vacuum pressure and help protect turbo molecular pumping systems.



Technical Data

Specifications Appendications Measuring range in mbar	1×10 ⁻⁶ to 13.33 mbar (7.5×10 ⁻⁷ to 100 Torr)
Measuring principle	MEMS Pirani thermal conductivity
Accuracy 1×10 ⁻⁵ to 9.99×10 ⁻⁵	25% of reading
Accuracy 1×10 ⁻⁴ to 9.99×10 ⁻¹ mbar	
•	5% of reading
Accuracy 1.00 to 13.33 mbar	30% of reading
Hysteresis 1×10 ⁻³ to 10 mbar (ISO19685:2017)	1%
Analog output resolution	16 bit (150 μV)
Analog output update rate	124 Hz
Response time (ISO 19685:2017)	<20 ms
Temperature compensation	+10 to +50 °C
Solid state relay set point range	5×10 ⁻⁶ to 1333 mbar (3.75×10 ⁻⁶ to 1000 Torr)
Solid state relay contact rating	50 V, 100 mA _{rms} / mA _{DC}
Solid state relay approvals	UL Recognized: File E76270
	CSA Certified: Certificate 1175739
	EN/IEC 60950-1 Certified
Environment conditions	
Operating ambient temperature	-20 to +50 °C
Media temperature	-20 to +50 °C
Storage ambient temperature	-40 to +120 °C
Bake-out temperature (non-operating)	+120 °C
Maximum media pressure ⁽³⁾	10 bar absolute
Mounting position	Arbitrary
Protection rating, EN 60529/A2:2013	IP40
Humidity, IEC 68-2-38	98%, non-condensing
Power supply Power supply	
Supply voltage	12-30 VDC
Power consumption	240 mW (max)
Reverse polarity protection	Yes
Overvoltage protection	Yes
Internal fuse	100 mA (thermal recoverable)
Materials aterials	
Enclosure	SS 1.4307 / AISI 304L / Aluminum 6061
Vacuum Process flange (media wetted)	SS 1.4401 / AISI 316
Vacuum exposed materials (media wetted)	316 Stainless steel, Kovar, glass, silicon, nickel
Standard version	aluminum, SiO ₂ , Si ₃ N ₄ , gold, Viton [®] , low out-gassing
	epoxy resin,
Vacuum exposed materials (media wetted)	316 Stainless steel, Viton [®] , Parylene
Parylene protected version	oro otamicos steel, vitori , i al yielle
Vacuum exposed materials (media wetted)	316 Stainless steel, Viton [®] , Aluminum oxide ceramic
Ceramic protected version	(Al ₂ O ₃)
Process leak tightness	(A1203) <1.10 ⁻⁹ mbar·l/s
Reliabilitymenete	
MTBF (Mean Time Between Failure)	13.092.170 hours
Failure rate FIT (Failure In Time, where time=10E+9 hours)	76,38
Approvals annuals	EMC directive 2014/20/EU
	EMC directive 2014/30/EU
RoHS compliance	Directive EU 2015/863

(1) Accuracy specifications are typical values at stable temperature after zero adjustment.

(2) Viton[®] is a trademark of THE CHEMOURS COMPANY FC, LLC

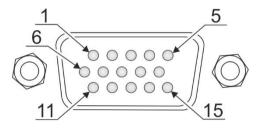
(3) Overpressure limits only applicable with using fittings rated to the specified

Specifications are subject to change without further notice.

Connector Pin Outs

15 Pin HD D-sub RS-232 / RS-485

Pin	Description
1	RS-232 Transmit / RS-485 (-)
2	RS-232 Receive / RS-485 (+)
3	Supply voltage 12-30 VDC
4	Supply voltage – (return)
5	Analog voltage signal +
6	Analog voltage signal – (return)
7	Relay 1 NO (normally open contact) ⁽⁴⁾
8	Relay 1 Common ⁽¹⁾
9	Relay 1 NC (normally closed contact) ⁽⁴⁾
10	Relay 2 NC (normally closed contact) ⁽⁴⁾
11	Relay 2 Common ⁽¹⁾
12	Relay 2 NO (normally open contact) ⁽⁴⁾
13	Relay 3 NO (normally open contact) $^{(4)}$ or analog out 2 $^{(5)}$
14	Relay 3 Common ⁽¹⁾
15	Relay 3 NO (normally open contact) ⁽⁴⁾
(4)	Optional relay
(5)	Optional secondary analog voltage output



«SENS⁴



Pir	n Description
1	Relay 1 NO (normally open contact) ⁽⁶⁾
2	Relay 1 NC (normally closed contact) ⁽⁶⁾
3	Supply voltage 12-30 VDC
4	Supply voltage – (return)
5	Analog voltage signal +
6	Relay 1 Common ⁽⁶⁾
7	RS-232 Transmit / RS-485 (-)
8	Analog voltage signal – (return)
9	RS-232 Receive / RS-485 (+)
	(6) Optional relay

6 Pin Hirschmann connector

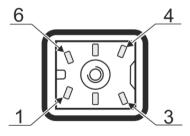
Pin	Description
1	Identification resistor (3K)
2	Analog voltage signal +
3	Analog voltage signal – (return)
4	Supply voltage 12-30 VDC
5	Supply voltage – (return)
6	Chassis

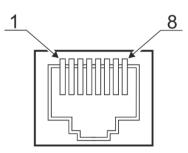
8 Pin RJ45 / 8P8C

Pin	Description
1	Supply voltage 12-30 VDC
2	Supply voltage – (return)
3	Analog pressure voltage signal +
4	Identification resistor
5	Analog pressure voltage signal – (return)
6	Relay 2 NO (normally open contact) ⁽⁷⁾
7	Relay 1 NO (normally open contact) ⁽⁷⁾
8	Relay COMMON ⁽⁷⁾
(7) Optional relay

1

5

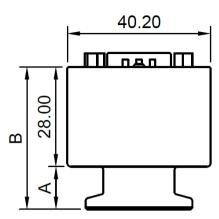




Datasheet



Dimensions



Flange type	A [mm]	B [mm]	A [inch.]	B [inch.]
DN16KF (P/N: VPM-4-1)	12.00	40.00	0.47	1.57
DN25KF (P/N: VPM-4-2)	12.00	40.00	0.47	1.57
VCR4 ¹ (P/N: VPM-4-4)	33.70	61.70	1.32	2.43
VCR8 ¹ (P/N: VPM-4-5)	29.43	57.43	1.15	2.26
1/8" NPT (P/N: VPM-4-3)	37.00	65.00	1.45	2.56
DN16CF (P/N: VPM-4-6)	21.83	49.83	0.86	1.96

DN16KF flange / D-SUB Connector	DN25KF flange / D-SUB Connector	VCR4F flange / D-SUB Connector	VCR8F flange / D-SUB Connector
1/8" NPT flange / D-SUB Connector	DN16CF flange / D-SUB Connector	DN16KF Extended flange / D-SUB Connector	DN16KF flange / FCC68 Connector
DN16KF Extended flange / FCC68 Connector	VCR4F flange / FCC68 Connector	DN16KF flange / Hirschmann Connector	DN16KF flange / Hirschmann Connector



Datasheet

Order Guide

VPM-4-	1	0	1	0	1	2	3	2		
						T		Ţ		Connection
/acuum flange / sensor protection		0	- H.					1		9 Pin D-sub male 15 pin HD D-sub male
DN25KF	2	0						3		15 pin HD D-Sub male / dual analog out
NPT 1/8"	3	0						4		6 pin Hirschmann, ID res 3K
VCR4 female	4	0						5		6 pin Hirschmann, ID res 5.1K
VCR8 female	5	0						6		6 pin Hirschmann, ID res 9.1K/11.1K
DN16KF Extended	8	0						7		8 pin RJ45 / FCC68, ID Res 27K
DN16KF with light baffle	1	1						8		8 pin RJ45 / FCC68, ID Res 36K
DN16KF with heavy duty baffle	1	2						9		8 pin RJ45 / FCC68, ID Res 43K
DN25KF with light baffle	2	1						A		8 pin RJ45 / FCC68, ID Res 71K5
DN25KF with heavy duty baffle	2	2						В		8 pin RJ45 / FCC68, ID Res 85K
DN16KF, Ceramic protected sensors	1	3								
DN25KF, Ceramic protected sensors	2	3 3								Setpoints
NPT 1/8", Ceramic protected sensors VCR4 female, Ceramic protected sensors	3	3					0		1 v (None Solid-State Relay (Only 9 pin D-sub)
VCR8 female, Ceramic protected sensors	5	3					2			lid State Relays (Only RJ45/FCC68)
DN16CF rotateble, Ceramic	6	3					3			State Relays (Only 15 pin HD D-sub)
DN16KF Extended, Ceramic	8	3						0.0		
DN16KF with light baffle, Ceramic	1	4								Unit
DN16KF with heavy duty baffle, Ceramic	1	5				1				torr
DN25KF with light baffle, Ceramic	2	4				2				mbar
DN25KF with heavy duty baffle, Ceramic	2	5				3				Pascal
DN16KF, Parylene protected sensors	1	6								
DN25KF, Parylene protected sensors	2	6								
NPT 1/8", Parylene protected sensors	3	6								
VCR4 female, Parylene protected sensors	4	6								
VCR8 female, Parylene protected sensors	5	6								
DN16CF rotateble Parylene protected sensors	6	6								
DN16KF Extended, Parylene protected sensors	8	6 7								
DN16KF with light baffle, Parylene DN16KF with heavy duty baffle, Parylene	1	8								
DN25KF with light baffle, Parylene	2	7								Online Order & RFQ
DN25KF with heavy duty baffle, Parylene	2	8								
Digital interface RS-232 / S4-Connect [™] (9 and 1 RS-485 / S4-Connect [™] (9 and 1 S4-Connect [™] (RJ45/FCC68 and	15 pin D-sub	b)	1 2 3							Our popular VPM-4 configurations are readily available in our online store for quick and hassle-free ordering.
RS-232 / S4-Connect [™] (9 and 1 RS-485 / S4-Connect [™] (9 and 1 S4-Connect [™] (RJ45/FCC68 and Analog Output	15 pin D-sub	b)	2							readily available in our online store for quick and hassle-free ordering.
RS-232 / S4-Connect [™] (9 and 1 RS-485 / S4-Connect [™] (9 and 1 S4-Connect [™] (RJ45/FCC68 and Analog Output 0.5 - 9.5 (1 V/dec)	15 pin D-sub d Hirschmar) nn)	2 3	0	1	1				readily available in our online store for quick and hassle-free ordering. Visit our online product configurator fo
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Accessories

RS232 / RS485 to USB converter with wall plug power supply

USB-to-Serial converter for VPM-4 SmartPirani transducers with wall plug power supply.					
Part number	Description				
PRG-WPRS2-15DS-01	RS-232 to USB, 15 pin HD D-sub, Power supply (90-230VAC)				
PRG-WPRS4-15DS-01	RS-485 to USB, 15 pin HD D-sub, Power supply (90-230VAC)				
PRG-WPRS2-9DS-01	RS-232 to USB, 9 pin D-sub, Power supply (90-230VAC)				
PRG-WPRS4-9DS-01	RS-485 communicator USB, 9 pin D-sub, Power supply (90-230VAC)				



Customer Service contact

Email: sales@sens4.com

Other Vacuum Measurement Products

The Sens4 vacuum transducer product range offers the market's most advanced multi-sensor transducers for use in a wide selection of industrial and scientific vacuum applications.



TrueVac[™] Controller

The TrueVAC[™] Vacuum Controller is an advanced, versatile instrument designed for precise monitoring and control of vacuum systems across a wide range of industrial and scientific applications. With its high-resolution digital display and intuitive interface, TrueVAC offers real-time vacuum measurement and control, allowing users to efficiently manage processes and maintain optimal conditions.

VPM-15 TriCAP[™] Transducer

The VPM-15 TriCAP[™] transducer is pin and output compatible with the VPM-4. The VPM-15 has an additional CDG (Capacitance Diaphragm Gauge) and Piezo sensor to provide the gas independent measuring from 5.0E-3 to 1333 mbar that can be an advantage in applications where gas composition or type can change.

For demanding applications, the VPM-15 TriCAP[™] is available with corrosion resistant ceramic or Parylene coated sensors.





VPM-7 for Load-lock Control

The VPM-7 SmartPirani[™] ATM is designed for load-lock pressure control and enable accurate control of vacuum system venting. It provides flexible interface and several control options including highresolution analog output with emulation curves for other vendors vacuum gauges, 3 independent solid-state relays and digital RS-232 or RS-485 interface.

About

Sens4 is a Danish technology company that develops, manufactures, markets, and distributes vacuum, pressure, and temperature measuring equipment for industrial and scientific applications worldwide. Our mission is to provide compelling product solutions that fit our customers' needs and enable them to efficiently measure and control advanced processes around the world.

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Contact

Sens4 A/S Nordre Strandvej 119G 3150 Hellebaek Denmark

Phone: +45 88447044 Email: info@sens4.com