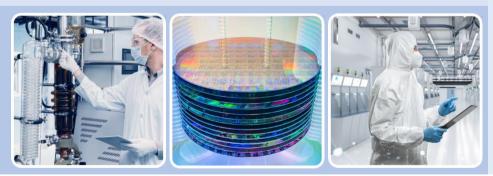
VDM-5 DiCAP[™] vacuum transducer

Capacitance and Piezo diaphragm combination gauge with 5.0E-3 to 1333 mbar measuring range.



Benefits & features

- Wide measuring range of 6 decades from 5.0E-3 to 1333 mbar
- Dual sensor provides measurement range of two traditional CDG's
- Gas independent measurement throughout the pressure range
- 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
- Drop-in replacement with other vendors' vacuum gauges



Product datasheet



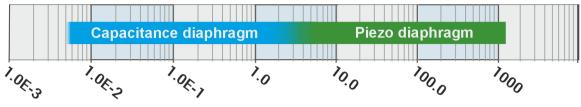
Typical applications

- Medical Device Sterilization
- Semiconductor Processing
- PVD Coating
- CVD Processing
- Analytical Instrumentation
- Vacuum Furnaces
- Space simulation



Consolidate two gauges with one solution multi-sensor solution

The VDM-5 DiCAP[™] transducer sets new benchmarks with its comprehensive measurement range tailored for a diverse range of vacuum applications. Distinguished from other vacuum gauges, it provides a cost-effective, gas-independent measurement range from 5.0E-3 to 1333 mbar (3.75E-3 to 1000 Torr).





In vacuum applications where the gas composition or type can change, traditional gas dependent Pirani gauges will result in measurement deviation from the actual pressure. The VDM-5 transducer uses a precision ceramic capacitance diaphragm gauge (CDG) sensor and Piezo diaphragm sensor that eliminates the gas dependency and provides accurate measurements also when the gas properties change.

Enabling use in harsh environments

The VDM-5 can also be used in tough vacuum applications where corrosive, and media may be present. is engineered not only for clean nitrogen vented load-lock applications in the semiconductor industry, but also for applications where particulates and aggressive media may be present. For applications where the sensors can be exposed to corrosive or aggressive gases, the SmartPirani[™] is available with conformal protective coating serving as an effective barrier.

Depending on the actual application, the VDM-5 transducer series offers a choice between an optional ceramic or Parylene protective barrier to guard against corrosion or oxidation of sensor materials.

Ceramic is highly corrosion resistant and is a well-proven material for vacuum sensor diaphragms in capacitance diaphragm gauges.

Parylene, a unique polymer with highly corrosion resistant and hydrophobic properties, is specifically designed for medical applications such as lyophilization and hydroperoxide plasma sterilization of medical devices.

In vacuum systems and processes, where vacuum sensors may be prone to damage from particulates, the VDM-5 DiCap[™] transducers are available with a protective baffle, acting as an efficient barrier against macroscopic particles. Combining these protective coating options, the DiCAP[™] transducers are wellequipped to handle challenging vacuum environments.







Other vendor compatibility

The drop-in replacement vacuum transducers are designed with connector pin-out compatibility, enabling seamless replacement of other vendor gauges without change of cabling.

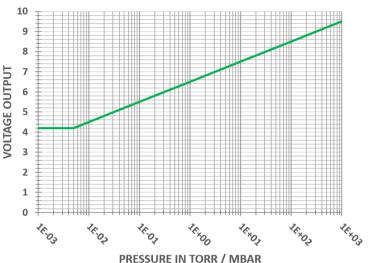
Additionally, these transducers emulate the analog output scaling and range of equivalent products from other manufacturers. Moreover, Sens4 transducers have the capability to emulate the digital serial communication protocol, facilitating easy installation without requiring adjustments to the communication software of the vacuum equipment. This digital protocol emulation ensures compatibility with power supply and controller display units from different vendors.

Measure and control of advanced vacuum processes

The VDM-5 TriCAP[™] transducer is meticulously designed to offer best-in-class measurement and control of vacuum gas pressure. It boasts several output options that deliver more than just a pressure measurement signal.

Analog voltage output

The analog output provides a voltage signal for external pressure readout or controls. The VDM-5 comes with a default voltage output signal of 1VDC/decade for mbar, Torr, or Pascal. Additionally, it provides flexibility for user configuration or can be preconfigured with a diverse range of analog output options, allowing for seamless replacement of gauges from various vendors.



Digital interface

The RS-232 and RS-485 serial interfaces facilitate the transfer of measurement data without being affected by signal degradation over extended cable lengths or interference from electrical noise. 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 serve to externally manage pumps, valves, safety interlock circuits, and other equipment. Their primary control functionality includes on/off regulation, featuring a programmable setpoint and hysteresis value.

Compared to electro-mechanical relays, solid-state relays offer heightened reliability and faster switching times. They boast arc-free contacts and produce no electromagnetic interference (EMI) during contact switching. The SmartPirani[™] relays are engineered for robustness and hold UL listing, CSA recognition, and EN/IEC 60950-1 certification. This guarantees utmost confidence when utilizing them to supervise critical vacuum processes and high-cycle load-lock applications.

Temperature measurement

The VDM-5 DiCAP[™] is designed for measuring pressure, yet it additionally provides a temperature measurement of the vacuum gas. This temperature data can be utilized for monitoring and diagnosing vacuum processes, and access to this information is available through the digital interface.

Typical applications

The DiCAP[™] transducer is compact multi-sensor transducer designed for reliable measurement and control of advanced vacuum processes and is suitable for a wide range of applications in industry and science.

Semiconductor Industry

The VDM-5 transducer can substitute a 1000 Torr and a 10 Torr standalone Capacitance Diaphragm Gauges and thereby provide a costeffective integrated solution for measurement and control of fore-line pressure in semiconductor equipment.

The ceramic corrosion resistant sensor option enables use where residuals of corrosive process gases can be present. Additionally, the baffle barrier can provide protection against macroscopic particles.



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Short Path Distillation

Short Path Distillation is a vacuum assisted process where a low temperature boiling point is obtained to prevent degradation or decomposition of heat-sensitive compounds during distillation process.

The VDM-5 measuring range covers the typical process pressure during short path distillation. The optional corrosive resistant coating of either Parylene or Ceramic provides compatibility with a variety of vapors and compounds.

Short path distillation is widely used in industries such as pharmaceuticals, food and beverage.

Hydrogen Peroxide Plasma Sterilization

Hydrogen peroxide plasma sterilization is widely used in the medical field to sterilize medical equipment and devices. The low temperature methode uses vacuum pressure to form hydrogen peroxide vapor and in combination with gas plasma it kills microorganisms on device surfaces.

The VDM-5 transducer offers gas independent measurement when exposed to H_2O_2 and plasma and covers the entire vacuum pressure range utilized in the Plasma Sterilization equipment with a single transducer.

The optional conformal Parylene sensor coating offers compatibility and longlivity in the harsh environment present during Hydrogen Peroxide Plasma Sterilization process.





Technical data

Specifications Specifications Measuring range in mbar	5×10 ⁻³ to 1333 mbar (3.75×10 ⁻³ to 1000 Torr)
Measuring principle 5×10 ⁻³ to 3.99 mbar	Capacitance diaphragm gauge (CDG)
Measuring principle 4 to 5 mbar	Blended CDG / Piezo reading
Measuring principle 5 to 1333 mbar	MEMS piezo resistive diaphragm
Accuracy 5×10 ⁻² to 800 mbar	0.5% of reading
Accuracy 800 to 1099 mbar	0.25% of reading
· · · · · · · · · · · · · · · · · · ·	
Accuracy 1100 to 1200 mbar	0.5% of reading
Accuracy 100 to 800 mbar	0.5% of reading 0.25% of reading
Accuracy 800 to 1099 mbar Accuracy 1100 to 1200 mbar	0.25% of reading
Hysteresis 1×10 ⁻² to 10 mbar (ISO19685:2017)	1%
Hysteresis 10 to 1200 mbar (ISO19685:2017)	0.1%
• • •	-20 to + 85°C
Vacuum temperature sensor range	
Vacuum temperature sensor accuracy	+/- 1.5 °C
Transducer temperature sensor range	-20 to + 85°C
Transducer temperature sensor accuracy	+/- 1.5 °C
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 contact endurance	Unlimited (no mechanical wear)
Solid state relay approvals	UL Recognized: File E76270
	CSA Certified: Certificate 1175739
Environment conditions	EN/IEC 60950-1 Certified
Operating ambient temperature	-20 to +50 °C
Media temperature	-20 to +50 °C
Storage ambient temperature	-40 to +80 °C
Bake-out temperature (non-operating)	+80 °C
Maximum media pressure ⁽³⁾	4 bar absolute
Mounting position	Arbitrary
	•
Protection rating, EN 60529/A2:2013	IP40
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38	•
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Throw Communications	IP40 98%, non-condensing
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Human and the Supply voltage	IP40 98%, non-condensing 12-30 VDC
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Human annul Supply voltage Power consumption	IP40 98%, non-condensing 12-30 VDC 240 mW (max)
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Supply voltage Power consumption Reverse polarity protection	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply The second seco	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Control of the supply Control of the supply Control of the supply contage Power consumption Reverse polarity protection Overvoltage protection Internal fuse	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply for an analy Supply voltage Power consumption Reverse polarity protection Overvoltage protection Internal fuse Materials	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable)
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply former summer Supply voltage Power consumption Reverse polarity protection Overvoltage protection Overvoltage protection Internal fuse Materials merches Enclosure	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable) SS 1.4307 / AISI 304L / Aluminum 6061
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Constrained Supply voltage Power consumption Reverse polarity protection Overvoltage protection Overvoltage protection Internal fuse Materials Constrained Enclosure Vacuum Process flange (media wetted)	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable) SS 1.4307 / AISI 304L / Aluminum 6061 SS 1.4401 / AISI 316
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Contract Cont	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable) SS 1.4307 / AISI 304L / Aluminum 6061 SS 1.4401 / AISI 316 316 Stainless steel, Viton [®] , silicon, vitreous silica, low ou
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply with a mathematical strength of the supply voltage Power consumption Reverse polarity protection Overvoltage protection Divervoltage protection Internal fuse Materials mathematical strength of the supplementation of the	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable) SS 1.4307 / AISI 304L / Aluminum 6061 SS 1.4401 / AISI 316 316 Stainless steel, Viton [®] , silicon, vitreous silica, low ou gassing epoxy resin, solder, RO4305
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Conversion Supply voltage Power consumption Reverse polarity protection Overvoltage protection Internal fuse Materials Materials Enclosure Vacuum Process flange (media wetted) Vacuum exposed materials (media wetted) Standard version Vacuum exposed materials (media wetted)	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable) SS 1.4307 / AISI 304L / Aluminum 6061 SS 1.4401 / AISI 316 316 Stainless steel, Viton [®] , silicon, vitreous silica, low ou
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Content of the supply voltage Power consumption Reverse polarity protection Overvoltage protection Internal fuse Materials Content Enclosure Vacuum Process flange (media wetted) Vacuum exposed materials (media wetted) Standard version Vacuum exposed materials (media wetted) Parylene protected version	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable) SS 1.4307 / AISI 304L / Aluminum 6061 SS 1.4401 / AISI 316 316 Stainless steel, Viton [®] , silicon, vitreous silica, low ou gassing epoxy resin, solder, RO4305 316 Stainless steel, Viton [®] , Parylene
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Commension Supply voltage Power consumption Reverse polarity protection Overvoltage protection Internal fuse Materials Commension Enclosure Vacuum Process flange (media wetted) Vacuum exposed materials (media wetted) Standard version Vacuum exposed materials (media wetted) Parylene protected version Vacuum exposed materials (media wetted)	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable) SS 1.4307 / AISI 304L / Aluminum 6061 SS 1.4401 / AISI 316 316 Stainless steel, Viton [®] , silicon, vitreous silica, low ou gassing epoxy resin, solder, RO4305 316 Stainless steel, Viton [®] , Parylene
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Content of the supply voltage Power consumption Reverse polarity protection Overvoltage protection Internal fuse Materials Enclosure Vacuum Process flange (media wetted) Vacuum exposed materials (media wetted) Standard version Vacuum exposed materials (media wetted) Parylene protected version Vacuum exposed materials (media wetted) Parylene protected version	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable) SS 1.4307 / AISI 304L / Aluminum 6061 SS 1.4401 / AISI 316 316 Stainless steel, Viton [®] , silicon, vitreous silica, low ou gassing epoxy resin, solder, RO4305 316 Stainless steel, Viton [®] , Parylene 316 Stainless steel, Viton [®] , Aluminum oxide ceramic (Al ₂ O ₃)
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply Contraction Supply voltage Power consumption Reverse polarity protection Overvoltage protection Internal fuse Materials Materials Enclosure Vacuum Process flange (media wetted) Vacuum exposed materials (media wetted) Standard version Vacuum exposed materials (media wetted) Parylene protected version Vacuum exposed materials (media wetted) Parylene protected version Vacuum exposed materials (media wetted) Parylene protected version Process leak tightness	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable) SS 1.4307 / AISI 304L / Aluminum 6061 SS 1.4401 / AISI 316 316 Stainless steel, Viton [®] , silicon, vitreous silica, low ou gassing epoxy resin, solder, RO4305 316 Stainless steel, Viton [®] , Parylene
Protection rating, EN 60529/A2:2013 Humidity, IEC 68-2-38 Power supply intervention Supply voltage Power consumption Reverse polarity protection Overvoltage protection Internal fuse Materials intervent Enclosure Vacuum Process flange (media wetted) Vacuum exposed materials (media wetted) Standard version Vacuum exposed materials (media wetted) Parylene protected version Vacuum exposed materials (media wetted) Parylene protected version	IP40 98%, non-condensing 12-30 VDC 240 mW (max) Yes Yes 100 mA (thermal recoverable) SS 1.4307 / AISI 304L / Aluminum 6061 SS 1.4401 / AISI 316 316 Stainless steel, Viton [®] , silicon, vitreous silica, low ou gassing epoxy resin, solder, RO4305 316 Stainless steel, Viton [®] , Parylene 316 Stainless steel, Viton [®] , Aluminum oxide ceramic (Al ₂ O

(1) Accuracy specifications are typical values at stable temperature and
(2) Viton[®] is a trademark of THE CHEMOURS COMPANY FC, LLC

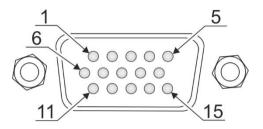
(3) Overpressure limits only applicable when using fittings rated to the specified pressure.

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⁾
(1)	Optional relay
(2)	Optional secondary analog voltage output



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9 Pin D-sub RS-232 / RS-485

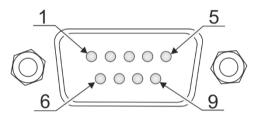
Pin	Description
1	Relay 1 NO (normally open contact) ⁽⁶⁾
2	Relay 1 NC (normally closed contact) ⁽⁶⁾
3	Supply voltage 12-30 VDC
4	Supply voltage – (return)
5	Analog voltage signal +
6	Relay 1 Common ⁽⁶⁾
7	RS-232 Transmit / RS-485 (-)
8	Analog voltage signal – (return)
9	RS-232 Receive / RS-485 (+)
(3)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

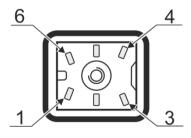
6 Pin Hirschmann connector

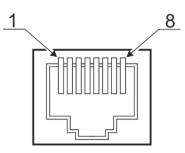
Pin	Description
1	Identification resistor (3K)
2	Analog voltage signal +
3	Analog voltage signal – (return)
4	Supply voltage 12-30 VDC
5	Supply voltage – (return)
6	Chassis

8 Pin RJ45 / 8P8C

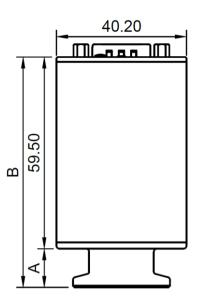
Pin	Description
1	Supply voltage 12-30 VDC
2	Supply voltage – (return)
3	Analog pressure voltage signal +
4	Identification resistor
5	Analog pressure voltage signal – (return)
6	Relay 2 NO (normally open contact) ⁽⁷⁾
7	Relay 1 NO (normally open contact) ⁽⁷⁾
8	Relay COMMON ⁽⁷⁾
(-	4) Optional relay







Dimensions



Flange type	A [mm]	B [mm]	A [inch.]	B [inch.]
DN16KF (P/N: VDM-5-1)	12.00	71.50	0.47	2.81
DN25KF (P/N: VDM-5-2)	12.00	71.50	0.47	2.81
VCR4 ¹ (P/N: VDM-5-4)	28.50	88.00	1.12	3.46
VCR8 ¹ (P/N: VDM-5-5)	30.80	90.30	1.21	3.56
1/8" NPT (P/N: VDM-5-3)	37.00	65.00	1.45	2.56
DN16CF (P/N: VDM-5-6)	21.83	81.33	0.86	3.20

DN16KF flange / D-SUB Connector	DN25KF flange / D-SUB Connector	VCR4F flange / D-SUB Connector	VCR8F flange / D-SUB Connector
		SECUSA Balanta Cé	
1/8" NPT flange / D-SUB Connector	DN16CF flange / D-SUB Connector	DN16KF Extended flange / D-SUB Connector	

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Datasheet

Order guide

							Connection
Acuum flange / sensor protection							1 9 Pin D-sub male
DN16KF DN25KF	1 0 2 0						2 15 pin HD D-sub male
NPT 1/8"	3 0						3 15 pin HD D-Sub male / dual analog our 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						
DN16KF, Ceramic protected sensors	1 3						Setpoints
DN25KF, Ceramic protected sensors	2 3					0	None
NPT 1/8", Ceramic protected sensors	3 3					1	1x Solid-State Relay (Only 9 pin D-sub)
VCR4 female, Ceramic protected sensors						2	2x Solid State Relays (Only RJ45/FCC68)
VCR8 female, Ceramic protected sensors						3	3x Solid State Relays (Only 15 pin HD D-sub)
DN16CF rotateble, Ceramic	6 3						
DN16KF Extended, Ceramic	8 3				1		Unit
DN16KF with light baffle, Ceramic	1 4				1		torr mbar
DN16KF with heavy duty baffle, Ceramic DN25KF with light baffle, Ceramic	1 5				2		Pascal
DN25KF with light barrie, Ceramic DN16KF, Parylene protected sensors	1 4				5		rasCal
DN25KF, Parylene protected sensors	2 6						
NPT 1/8", Parylene protected sensors	3 6						
VCR4 female, Parylene protected sensors							
VCR8 female, Parylene protected sensors							
DN16CF rotateble Parylene protected ser							
DN16KF Extended, Parylene protected se							
DN16KF with light baffle, Parylene	1 7						
DN16KF with heavy duty baffle, Parylene	1 8						
DN25KF with light baffle, Parylene	2 7						
DN25KF with heavy duty baffle, Parylene	2 8						
S4-Connect [™] (RJ45/FCC	68 and Hirschmann)	3					
Analog Output							
0.5 - 9.5 (1 V/de			0	1			
0.5 - 9.5 (1 V/de 1.0-9 VDC 1 VD	C/Dec (MKS 901P/925/91	10)	0	2			
0.5 - 9.5 (1 V/de 1.0-9 VDC 1 VD 0.375 to 5.659	C/Dec (MKS 901P/925/91 VDC (MKS GP275)	10)	0	2 3			
0.5 - 9.5 (1 V/d 1.0-9 VDC 1 VD 0.375 to 5.659 0.5V DC (MKS 5	C/Dec (MKS 901P/925/91 VDC (MKS GP275) 523)		0 0 0	2 3 4			
0.5 - 9.5 (1 V/de 1.0-9 VDC 1 VD 0.375 to 5.659 0.5V DC (MKS 5 1.9-10 VDC (Inf	C/Dec (MKS 901P/925/91 VDC (MKS GP275) 523) icon PSG55x, Leybold TTF		0 0 0 0	2 3 4 5			
0.5 - 9.5 (1 V/de 1.0-9 VDC 1 VD 0.375 to 5.659 0.5V DC (MKS 5 1.9-10 VDC (Inf 1.5-8.5 VDC (Pf	C/Dec (MKS 901P/925/91 VDC (MKS GP275) 523) icon PSG55x, Leybold TTF eiffer TPR260/27x/28x)		0 0 0 0 0	2 3 4 5 6			
0.5 - 9.5 (1 V/de 1.0-9 VDC 1 VD 0.375 to 5.659 0.5V DC (MKS 8 1.9-10 VDC (Inf 1.5-8.5 VDC (Pf 1.9-9.1VDC (Ed	C/Dec (MKS 901P/925/91 VDC (MKS GP275) 523) icon PSG55x, Leybold TTF eiffer TPR260/27x/28x) wards APG100XLC)		0 0 0 0 0 0	2 3 4 5 6 7			
0.5 - 9.5 (1 V/de 1.0-9 VDC 1 VD 0.375 to 5.659 0.5V DC (MKS 8 1.9-10 VDC (Inf 1.5-8.5 VDC (Pf 1.9-9.1VDC (Ed 1.9-9.1VDC (Ed	C/Dec (MKS 901P/925/91 VDC (MKS GP275) 523) icon PSG55x, Leybold TTF eiffer TPR260/27x/28x) wards APG100XLC) wards APG100XM)		0 0 0 0 0 0 0	2 3 4 5 6 7 8			
0.5 - 9.5 (1 V/de 1.0-9 VDC 1 VD 0.375 to 5.659 0.5V DC (MKS 8 1.9-10 VDC (Inf 1.5-8.5 VDC (Pf 1.9-9.1 VDC (Ed 1.9-9.1 VDC (Ed 2-10VDC (Edwa	C/Dec (MKS 901P/925/91 VDC (MKS GP275) 523) icon PSG55x, Leybold TTF reiffer TPR260/27x/28x) wards APG100XLC) wards APG100XM) ards APG-L)	391)	0 0 0 0 0 0 0 0 0	2 3 4 5 6 7 8 9			
0.5 - 9.5 (1 V/de 1.0-9 VDC 1 VD 0.375 to 5.659 0.5V DC (MKS 5 1.9-10 VDC (Inf 1.5-8.5 VDC (Pf 1.9-9.1 VDC (Ed 2-10VDC (Edwa 0-10 VDC 0.1To	C/Dec (MKS 901P/925/91 VDC (MKS GP275) 523) icon PSG55x, Leybold TTF ieiffer TPR260/27x/28x) wards APG100XLC) wards APG100XM) ards APG-L) orr FS Capacitance manom	R91) neter	0 0 0 0 0 0 0 0 0 0 1	2 3 4 5 6 7 8			
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Accessories

RS-232 / RS-485 to USB converter with wall plug power supply

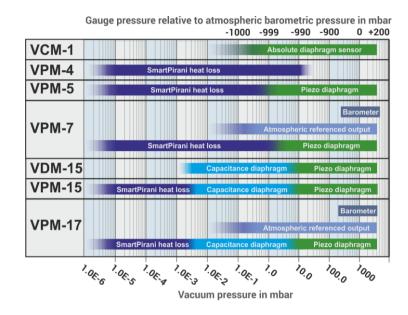
USB-to-Serial converter for VPM-5 SmartPirani transducers with wall plug power supply.

Part number	Description	
PRG-WPRS2-15DS-01	RS-232 to USB, 15 pin HD D-sub, Power supply (90-230VAC)	6
PRG-WPRS4-15DS-01	RS-485 to USB, 15 pin HD D-sub, Power supply (90-230VAC)	.0
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)	



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VPM-17 TriCAP[™] ATM transducer

The VPM-17 TriCAP[™] transducer is a unique multi-sensor transducer that provides gas independent measurement from 5.0E-3 to 1333 mbar, which can be an advantage in applications where gas composition or type can change.

For demanding applications, the VPM-17 TriCAP[™] ATM is available with corrosion resistant ceramic or Parylene coated sensors.



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