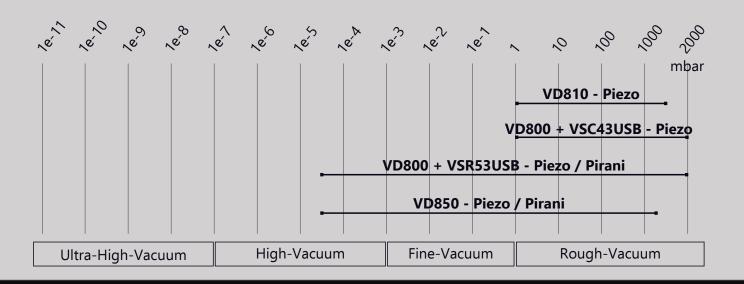
Compact Vacuum Meters



VD800 series At a Glance





VD800 seriesFeatures

Variably applicable

The VD800 compact vacuum meters measure absolute pressure from 2000 to 5e-5 mbar and relative pressure in a range of -1060 to +1200 mbar. They are thus suited for various applications.

Big graphic display

The integrated display and a 4+1 membrane keypad allow an intuitive menu navigation. Measured values and pressure curves can directly be read-out on-site.

Precise solutions

The compact vacuum meters' displays show absolute and relative pressure as well as lowest and highest value of a measurement cycle. Temperature compensated sensors and advanced electronics guarantee precise and reproducible measuring results.

Rate of rise measurement

Our VD800 are perfectly suited for the long-term control of the increase in pressure to secure the tightness of vacuum chambers and vacuum systems.

Connection

The different models can easily be connected to vacuum pumps or vacuum equipment by use of standard vacuum fittings.

Furthermore, they can be put directly into a vacuum chamber. Adaptors for different flange sizes, threads and hoses are also available.

Replacement sensors

Defective sensor heads can easily be exchanged by trained personnel on-site. Maintenance time and costs are thus reduced to a minimum.

Comfortable data saving

All VD800 compact vacuum meters feature an integrated data logger and save multiple measurement series, recording them with their RTC data.

USB-C/Bluetooth®LE

The USB-C interface – or optional Bluetooth® LE for wireless data transfer – allows a direct readout of the measured data and the export of measurement series stored in the data logger.

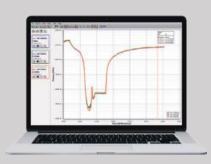
Data analysis

The VacuGraph[™]-software can be used to read-out the data logger, as well as for an easy visualization and analysis of the measured data. This is especially beneficial in applications where data must be documented e.g., by saving and comparing pumpdown characteristics for audits and quality assurance.









VD800 series

Accessories and Services



■ VD800CASE

Protective case VD800,
with foam protection,
275 x 230 x 83 mm



■ VD800N5 Charger 5 V



WUSB_AC001
 Cable USB-C to USB-A, 1.0 m
 included with device



■ WUSB_CC002 Cable USB-C to USB-C, 2.0 m



■ VGR VacuGraph[™] software for Windows, Linux and MacOS, full version to download, single license or triple license (VGRX3)



- Calibrations:
 - DCERT: Works calibration
 4 reference points
 per pressure decade
 - DKDCERTDAkkS calibration



■ VD81SW1 Hose Nozzle, G1/4 male thread, hose nozzle Inside diameter 6 - 8 mm, brass-nickel plated, only for VD810



ZSW1612 Adaptor
 DN 16 ISO-KF / hose nozzle
 Inside diameter 12 mm



ZG14UNF716 Adaptor
 G1/4 - 7/16" UNF,
 length 35 mm, only for VD810



■ **ZG1614** Adaptor DN 16 ISO-KF - G1/4 male thread



ZNPT14 AdaptorDN 16 ISO-KF - NPT 1/4



- VD8ANS connection set consisting of:
 - □ 1x ZTA016 DN 16 ISO-KF tee, aluminium
 - 2x ZZR016 DN 16 ISO-KF centering ring, stainless steel / FKM
 - □ 2x ZSR1016 DN 10/16 ISO-KF clamp, aluminium



 ZZCH016 Centering ring DN 16 ISO-KF with baffle for sensor protection against pollution



 ZZDF016 Centering ring DN 16 ISO-KF with wire filter for sensor protection against pollution



 ZSST016 spiral pipe DN 16 ISO-KF for protection against condensate and coating of the sensor

You will find further accessories in our brochure for vacuum components.



VD800 seriesTechnical Data

Neasurement Range Depending on transducer Abs. 2000 - 1 mbar (1500 - 1 Torr) (1500 - 1 T		VD850	VD810	VD800	
Transducer (1500 - 1 Torr) (900 - 5e-5 Torr) (795 + 255 Torr 200 mbar (795 + 255 Torr 200 - 40 mbar 200 - 40 mbar 200 + 20 mbar 200 - 40 mbar 200 + 20 mbar 200 +		Piezoresistive / Heat conducting Pi (depending on gas		Thyracont	leasurement Principle
Absolute pressure: 0.25% of scaled value Relative pressure: 0.25% of scaled value Relative pressure: 0.3% of span (a) 40 - 10 - 10 mbar (b) of scaled value of scaled value (a) - 10 - 10 mbar (b) of scaled value (b) - 10 - 10 mbar (b) of scaled value (c) - 10 - 10 mbar (b) of scaled value (c) - 10 - 10 mbar (b) of scaled value (c) - 10 - 10 mbar (b) of scaled value (c) - 10 - 10 mbar (b) of scaled value (c) - 10 - 10 mbar (c) - 10	40 mbar	` '	(1500 - 1 Torr) Rel1060 bis +1200 mbar		leasurement Range
Name		10 bar abs.	4 bar abs.	-	lax. Overload
1000 2.0 mbar: 1	0.3% 10% ie	40 - 1e-3 mbar: 10% of measured value Relative pressure: 0	0.25% of scaled value Relative pressure:	-	ccuracy
Hamiltonian	0.1 mbar 3 digits r: 2 digits	1200 1000 mbar: 1000 2.0 mbar: 0. 2.0 1e-2 mbar: 3 1e-2 1e-4 mbar: 2 1e-4 5e-5 mbar: 1	1 mbar	-	esolution
Vac. Contact Al ₂ O ₃ ceramic, FKM nickel, tungsten SiO ₂ , glass, SnAg L Polyimid, Epoxid Logging Rate 20 ms 60 s 20 ms 60 s 20 ms 60 s Environment Interior, degree of contamination max. PD 2 Rel. humidity max 80% up to 30 °C, max. 50% up to 40 °C, non-conder Operating Temperature +5+50 °C +5+50 °C +5+50 °C Storage Temperature -20+60 °C -20+60 °C -20+60 °C Power Supply 5 VDC via USB-C 5 VDC via USB-C 5 VDC via USB-C Operating Time - > 1000 h > 48 h Interfaces Interfaces USB 2.0 USB 2.0 USB 2.0 Optional Bluetooth® LE USB 2.0 Optional Bluetooth Vacuum Connection - DN 16 ISO-KF, G1/4 DN 16 ISO-KF Display Graphic display, resolution 400 x 240 Protection Class IP20, not certified Weight 200 g 250 g 250 g 250 g	2 %	1200 - 40 mbar: 0.1 of scaled value 40 - 1e-2 mbar: 2 % of measured value		-	epeatability
Environment Interior, degree of contamination max. PD 2 Rel. humidity max 80% up to 30 °C, max. 50% up to 40 °C, non-conder Operating Temperature		SiO ₂ , glass, SnAg Lo		-	
Rel. humidity max 80% up to 30 °C, max. 50% up to 40 °C, non-conder Operating Temperature		20 ms 60 s	20 ms 60 s	20 ms 60 s	ogging Rate
Storage Temperature -20+60 °C -20+60 °C -20+60 °C Power Supply 5 VDC via USB-C 5 VDC via USB-C 5 VDC via USB-C Operating Time - > 1000 h > 48 h Interfaces USB 2.0 USB 2.0 USB 2.0 optional Bluetooth® LE Vacuum Connection - DN 16 ISO-KF, G1/4 DN 16 ISO-KF Display Graphic display, resolution 400 x 240 Protection Class IP20, not certified Weight 200 g 250 g 250 g	ensing			nvironment	
Power Supply 5 VDC via USB-C 5 VDC via USB-C 5 VDC via USB-C Operating Time - > 1000 h > 48 h Interfaces USB 2.0 USB 2.0 optional Bluetooth® LE optional Bluetooth Vacuum Connection - DN 16 ISO-KF, G1/4 DN 16 ISO-KF Display Graphic display, resolution 400 x 240 Protection Class IP20, not certified Weight 200 g 250 g 250 g		+5+50 °C	+5+50 °C	+5+50 °C	perating Temperature
Operating Time - > 1000 h > 48 h Interfaces USB 2.0 USB 2.0 optional Bluetooth® LE USB 2.0 optional Bluetooth Vacuum Connection - DN 16 ISO-KF, G1/4 DN 16 ISO-KF Display Graphic display, resolution 400 x 240 Protection Class IP20, not certified Weight 200 g 250 g 250 g		-20+60 °C	-20+60 °C	-20+60 °C	torage Temperature
Interfaces USB 2.0 USB 2.0 Optional Bluetooth® LE Optional Bluetooth Vacuum Connection - DN 16 ISO-KF, G1/4 DN 16 ISO-KF Display Graphic display, resolution 400 x 240 Protection Class IP20, not certified Weight 200 g 250 g	2	5 VDC via USB-C	5 VDC via USB-C	5 VDC via USB-C	ower Supply
Vacuum Connection - DN 16 ISO-KF, G1/4 DN 16 ISO-KF Display Graphic display, resolution 400 x 240 Protection Class IP20, not certified Weight 200 g 250 g		> 48 h	> 1000 h	-	perating Time
Display Graphic display, resolution 400 x 240 Protection Class IP20, not certified Weight 200 g 250 g	th® LE	USB 2.0 optional Bluetooth		USB 2.0	terfaces
Protection Class IP20, not certified Weight 200 g 250 g 250 g		DN 16 ISO-KF	DN 16 ISO-KF, G1/4	-	acuum Connection
Weight 200 g 250 g 250 g			display, resolution 400 x 240	isplay	
	IP20, not certified				rotection Class
Dimensions 70 x 105 x 24 4 mm 70 x 105 x 46 4 mm 70 x 105 x 46 4 mm		250 g	250 g	200 g	/eight
70 X 103 X 2 1, 1 mm 70 X 103 X 40,4 mm 70 X 103 X 40,4 mm	nm	70 x 105 x 46,4 mm	70 x 105 x 46,4 mm	70 x 105 x 24,4 mm	imensions



Notes



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