Tachnical specifications

Technical specifications							
Pressure ranges [mH2	0] 1 5	> 5 20	> 20 250				
Overload	3 bar	3 x FS (minimum 3 bar)	3 x FS				
Deviation in characteristics $^{\text{1)}}$ [± $\%$	FS] ≤ 0.25	≤ 0.1	≤ 0.1				
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	°C ≤ 0.06 ²⁾	≤ 0.03 ≤ 0.015	≤ 0.015 ≤ 0.015				
Temperature range 3)		-550°C					
Long-term stability (1 year) - (typ	$\leq 0.5\%$ FS/< 4mbar	\leq 0.2% FS/< 4mbar	\leq 0.1% FS/< 0.2% FS				
Mea	suring range	Resolution	Accuracy				
Temperature measurement with Temperature measurement with Conductivity		0.1°C 0.1°C 1 μS/cm	$\begin{array}{c} \pm~0.25^{\circ}\text{C} \\ \pm~1^{\circ}\text{C} \\ 20~\mu\text{S/cm}500~\mu\text{S/cm} = \pm~2\% \\ \pm 4~\text{digits on the measured value} \\ 500~\mu\text{S/cm}20~\text{mS/cm} = \pm~2\% \\ \text{on the measured value} \end{array}$				
	Datal	ogger					
Measurands Resolution Real-time clock Data memory	Pressure (Temperature measurement as an option), pressure and conductivity incl. temperature Pressure < 0.01% FS Quartz-precision clock with date; Start-time of datalogging configurable Up to 500'000 measurement values, non-volatile, data remain in memory even without battery, each measurement value is correlated with time and date						
Interface Identification Power supply	RS485 Each datalogger has a unique serial number, as well as a user-definable description Lithium battery 3.6 V / type AA (battery can be changed on-site) 1 battery for a cable length of ≤ 100m, 2 batteries for a cable length of > 100m (max. 300m)						
	Data readout a	nd configuration					
PC program for measurement-d System requirements	lata readout and datalogger configuration IBM-compatible PC or Notebook with 200 MI 64 MB RAM or higher Free serial interface (9-pin or 25-pin with adar Windows 98 / 98 SE / ME Operating System	Hz processor or faster; Min. 50 MB hard-di apter) or USB with adapter m					
Data transfer 4)	NT from Version 4 (min. Service Pack 6 and Internet Explorer from Version 6.0) / 2000 / XP Read out data per measurement series, Read out all stored data, Read out data for a defined time-period						

Kead out data per measurement series, Kead out all stored data, Kead out data tor a detined time-period

Sample- and storage rate Configuration

Recording of data in a defined time-window Identification (f.e. measuring site)

Tare; the datalogger stores the height of the air column, and not the pressure at the sensor Taring of measurement value; the current pressure can be set to the actual value Threshold value (option); Storage of the measurement data within the defined range

Density of the measuring medium (option); Set the density of the measuring medium, which is automatically calculated in as well

Data recording as a function of time or threshold value (option)

Data format Data are stored in ASCII or XML format and can be read with all common programs such as Excel, Lotus, etc.

Electromagnetic compatibility

	Standard	Level	Typical sources of interference
Emissions: EN 61000-6-3 EN 55022	Generic emission standard Emission, class B		
Immunity: EN 61000-6-2 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-6	Generic immunity standard Electrostatic discharge Radiated electromagnetic field Radiated electromagnetic field (GSM) Fast transients (burst) Line-conducted electromagnetic interference	4 kV contact, 8 kV air 10V/m, 80-1000 MHz, 80% AM 1kHz 10V/m, 950 MHz, 200 Hz on/off 2 kV 10 V, 0.15-80 MHz, 80% AM 1 kHz	Radio sets, wireless phones digital portable phone Motors, valves Radio sets, wireless phones

¹⁾ Deviation in characteristics according to DIN 16086 initial-point setting, including hysteresis and repeatability

Data-transfer cable (2m): VART333 Interface converter: VART336 PC software: VART332 USB converter cable: VART381

 $^{^{2)} 0.5 - 0.99 \}text{ mH20} \le 0.12$

³⁾ Other temperature range on request

⁴⁾ Order data-transfer cable/interface converter and PC software separately:

Fig. 1

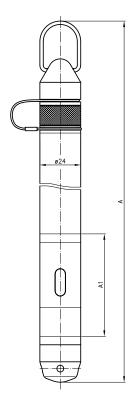


Fig. 2

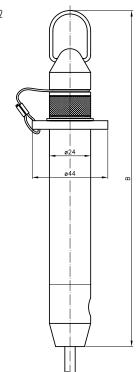


Fig. 3



Fig. 1b/2b/ 3b/4b



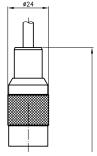


Fig. 4

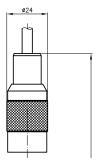
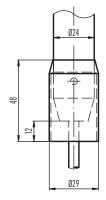


Fig. 5

2



					_	_	
Version	Model	Fig.	Length	Weight ⁴⁾ [g]	Length ³⁾	Weight ³⁾ [g]	Conductivity
absolute	closed	1a	A=291	365			A1=60
	open	1b	A=287	365			A1=60
relative	1 battery ¹⁾	2a	B=196	270			
	2 batteries ²⁾	2a	B=266	320			
	closed	За	C=225	300	310	560	C1=60
	open	3b	C=221	300	306	560	C1=60
connect.	closed	4a	D=249	340			C1=60
	lopen	4b	D=245	340			C1=60

 $^{^{1)}}$ Cable length ≤ 100 m $^{2)}$ Cable length > 100m $^{3)}$ with weight extension $^{4)}$ without cable