



Features

- Compact and robust stainless steel assembly 1.4435 (316L)
- Piezoresistive measuring element
- Gauge or absolute
- Pressure ranges from 0...1 m to 0...250 m water gauge
- Calibration available for all common pressure units mWS, mWC etc.
- Temperature measurement (optional)
- Measuring interval programable from 2 s to 24 h
- Non volatile data memory for 130'000 measurements
- High battery life (up to 10 years)
- Transfer of data to a laptop/handheld computer without removing the datalogger

Typical applications

Recording of level measurement in

- Phreatic Water
- Bore holes
- Waste water
- Reservoirs
- Lakes, rivers
- Sewage treatment plant

Specifications

Pressure range	[mH2O]	1 5	> 5 20	> 20 250			
Overpressure		3 bar	3 x FS (min. 3 bar)	3 x FS			
Accuracy 1)	[± % FS]	≤ 0.25	≤ 0.1	≤ 0.1			
Thermal shift Zero Span	[± % FS/°C] -550°C -550°C	0.06 0.015	0.03 0.015	0.015 0.015			
Temperature rang	je ²⁾		-550°C				

¹⁾ Zero based non-conformity according to DIN 16086, including hysteresis and repeatability

²⁾ Other temperature range on request

	Datalogger
Units	Pressure, pressure and temperature (temperature as option)
Resolution	Pressure < 0.01% FS Temperature 0.1°C
Real time clock	Quartz clock with date, start of first measurement programmable
Data memory	130'000 measurement values
·	- non volatile, data kept in memory even without battery - each measurement value is correlated with time and date
Interface	RS232C (V24, three wire)
Identification	Serial number and programmable Id. number
Power supply	Lithium battery $3.6V$ / size AA - on site battery change

Configuration and Data Transfer

PC-Program for Configuration and Data Transfer

IBM compatible laptop or PC, Windows 95/98/NT or handheld PC with Windows CE 2.11 or upward **System Requirements**

- data transfer of all data **Data Transfer** - data transfer of last measurement period

- data transfer for a defined time-period

- the data will be represented in a txt.file or in a graph

Configuration - sampling rate time between two records

- number of replicates - time and date

(e.g. name of location) - description

- starting time of first sample

- depth to water

- tare the actual pressure value can be set to the real value

- storage threshold value (optional)

- density of the measuring media the density-setting will affect the level range (optional)

Data Format Data are stored in ASCII format and may be read with programs like Excel, Lotus or similar

Electromagnetic compability

	Standard	Level	Typical interferences
Emission: EN 50081-1:1992 EN 55022:1994	Generic emission standard Emission, class B		
Immunity: EN 50082-2:1995 EN 61000-4-2:1995 ENV 50140:1993 ENV 50204:1995 EN 61000-4-4:1995	Generic immunity Electrostatic discharge Radiated electro-magnetic field Radiated electro-magnetic field (GSM) Fast transients (burst)	4kV contact, 8kV air 10V/m, 80-1000 MHz, 80% AM 1kHz 10V/m, 950 MHz, 200Hz on/off 2 kV	Cellular phones, radio sets Digital portable phones Motors, valves



The pressure transmitter DL fulfill the emission and immunity requirements described in the EMC directive 89/336/EEC.

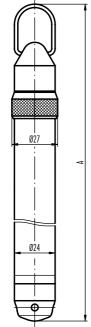
Ordering Information			64	X. 9	9XX	. 0761	. X4	.XXX
Туре	DL/N		64					
Dragoura Toma	Causa			,				
Pressure Type	Gauge Absolute			2				
	ADSOIUTE			Z				
D 6)	0 10							
Pressure range 6)	0 1.0 mH20 0 1.6 mH20							
	0 2.5 mH20							
	0 4.0 mH20							
	0 4.0 mH20							
	0 10 mH20							
	0 16 mH20							
	0 25 mH20							
	0 40 mH20							
	0 60 mH20							
	0100 mH20							
	0160 mH20							
	0250 mH20							
	Special calibration							
	Special cumbration							
Version	level transmitter screwed o	on closed (absolute)])	(Fig. 1a)	2	49			
V 61 31011	level transmitter screwed of		(Fig. 1b)	2	50			
	housing for pipe mounting	rlocad 1) 2)	(Fig. 2a/4)	L	57			
	housing for pipe mounting		(Fig. 2b/4)		58			
	housing for pipe mounting	screwed on closed 1) 2) 3)	(Fig. 3a/5)		72			
	housing for pipe mounting		(Fig. 3b/5)		73			
	noosing for pipe mooning	, scrowdd dii, dpoli	(11g. 0b/ 3/		70			
Cable	PE cable 4) 7)							
Симіо	PUR cable 4)							
	Teflon cable 4)							
Electrical connection	Connector RSF 4, 4-pin 8)					07		
Interface	RS232C					61		
4	< 1 0 0EU/ EC /f							
Accuracy	$\leq \pm 0.25\%$ FS (for pressu						1	
	$\leq \pm 0.1 \%$ FS (for pressi	ore ranges > 500 mbar)					Z	
T	-550°C ⁵⁾							
Temperature range	-550 C ^{3/}						4	
Options	Ballast weight							В
	Electronics packed in gel:	Gauge pressure						C
		Absolute pressure						D
	Temperature measuremen	t						E
	Flood protection		(Fig. 6)					I
	Special oil filling:	ASEOL Food						G
		Halocarbon						Н
	Seals: EPDM							S
	Kalrez							Ţ
	Special options							Z

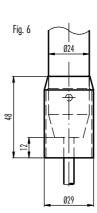
Version for pipe mounting, minimum diameter 2"
 Please specify the size of the thrust-ring (e.g. 2" or 4.5")
 Gauge version for cable length > 50m
 Please specify the required cable length and media

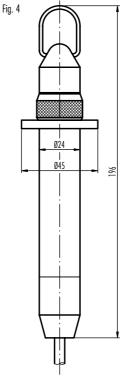
⁵⁾ Other temperature range on request
6) mWS, mWC etc. available
7) Suitable for drinking water (food approved)
8) Data transfer cable **not** included (ordering code VART009)

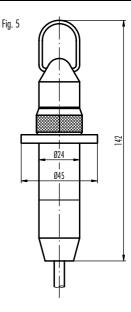
Dimensions

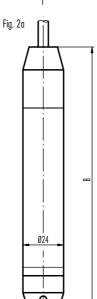
Fig. 1a











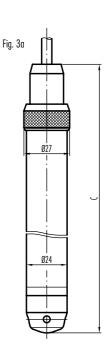


Fig. 1b/2b/3b



Version	Front	Fig.	Length	Weight [g]	Length ³⁾	Weight ³⁾ [g]
absolute	closed	la	A=288	260		
	open	1b	A=284	260		
gauge	closed	2a	B=157	195	B=244	425
	open	2b	B=153	195	B=240	425
	closed	3a	C=259.5	300		
	open	3b	C=255.5	300		

3) with ballast weight

Fig. 4 Battery housing
Fig. 3a/3b Battery built into the transmitter housing

Specifications may change without notice. Stand 06/01

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