



Pressure level transducer with datalogger for longterm groundwater monitoring

- Application Surface water, Groundwater
- Measurement technology Vented pressure cell
- Parameters measured Waterlevel/Pressure, Water temperature
- Product Highlights Measures and stores water level and temperature data
- Measurement range 0 ... 4, 10, 20, 40, and 100 m
- Accuracy ± 0.05% FS
- Internal data logger Yes

The OTT Orpheus Mini is an integrated pressure sensor and datalogger for level measurement in surface and groundwater applications. It features a robust ceramic measuring cell for long term accuracy and its built in datalogger manages and stores all measurements at user-programmable intervals.









## **Technical Data**

OTT Orpheus Mini Water Level Logger



Waterlevel measurement	
Measuring ranges	0 4 m, 10 m, 20 m, 40 m, 100 m
Accuracy, pressure sensor	± 0.05 % FS
Resolution, pressure sensor	0.01 % FS

Temperature measurement	
Measuring range temperature	-25 °C +70 °C (ice-free)
Accuracy temperature	± 0.5 °C
Resolution temperature	0.1 °C

### Electrical data

Power supply	3 x 1.5 V LR6-cells Alkaline- or Lithium-type
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Lifetime (at 1 h reading interval)	
with Lithium batteries	min. 5 years
with Alkaline batteries	min. 1.5 years (high quality battery types)

Interface	Infrared (IrDA)

Data Logger	
Memory	4 MB non-volatile
Number of measured values	approx. 500,000
Reading interval	1 second [ 24 hours
Storage interval	1 second 24 hours

Logging type - selectable	linear, logarithmic - free progammable (logging table) for
	pumping tests , event triggered delta data logging

		Installable in well pipes	≥ 1"
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System length	1.5 200 m ±1% ±5 cm (cable length incl. communication
	unit/pressure probe)

#### ABS, POM, 904 L (DIN 1.4539) Material

Weight	
Communication unit (incl.	approx. 0.410 kg
Patsiies)probe	approx. 0.300 kg

Dimensions	
Communication unit L x Ø	400 mm x 22 mm
Pressure probe L x Ø	195 mm x 22 mm

### **Operating Conditions**











# **Technical Data**

OTT Orpheus Mini Water Level Logger



Temperature-compensated working range	-5 °C +45 °C (ice-free)
Storage temperature	-40 °C +85 °C
Operating Temperature	-20 °C +70 °C
Humidity	100 %

Type of protection	
Communication unit	IP67 (immersion depth max. 2 m
	duration of immersion max. 24 h)
Pressure probe	IP68

EMV limits	IEC61326/EN61326 are compliant with EN 61000-4-2, EN
	61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN
	550222 class B









