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Level Data Collector

for groundwater level measurement. Measuring system, consisting of level transmitter and level probe, for data transmission via GPRS to higher server-based data portal Device to Web (D2W).

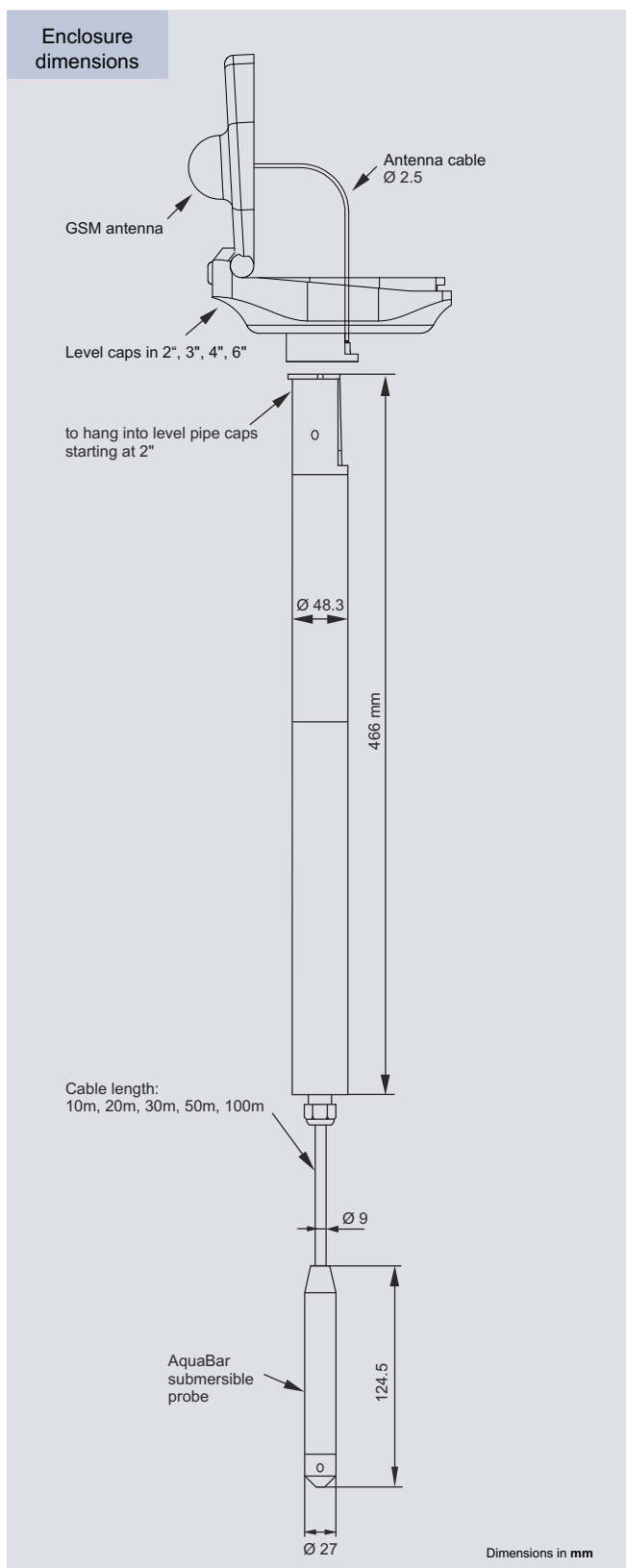
The level data collector measuring and data recording system is for detection of analog readings from connected 2-wire sensors such as pressure probes. The measurement system operates independent from mains power. Sensor and radio transmission system are powered by high-performance Lithium batteries featuring a very long lifetime (approx. 10 years typical). Detected readings are saved on flash memory and will be transmitted to the server-based Device to Web (D2W) Internet portal via GPRS using the built-in quad band modem.

This Internet portal allows to adjust the settings for communication and data processing as well as the operational settings of the level data collector unit. One of the main benefits of the system is the option to connect generally all 2-wire sensors by using the integrated terminal clamps. Users hence may select the appropriate sensor for the respective application and, by connecting with the level data connector, obtain a complete measurement system.

Specifications

Transmitter	
Enclosure	- material: stainless steel / plastic - weight: ca. 1800 g (without level probe) - protection: IP 68 - dimensions: Length - 466 mm Diameter - 48.3 mm
Power supply	two Lithium batteries in series 3.6 V each, 7.2 V DC / 13 Ah for sensor supply and radio transmission system
Power consumption	max. approx. 170 mA / 0.7 W in transmission mode
Typ. lifetime with pressure probe	approx. 10 years with one storage event per hour and transmission once per day
Operating temperature	-20 °C to +60 °C
Storing temperature	-30 °C to +85 °C
Max. humidity	80%, non-condensing
Display	red LED (status indicator) for indication of operating conditions and error messages
Operation	magnet switch for activation of measurement system
Input	4-20 mA for external 2-wire sensors (e.g. pressure probe)
Output	power supply 15 - 17.3 V DC, max. 66 mA for 2-wire sensors (e.g. pressure probe)
Storage cycle	1 to 60 minutes
Data memory	internal flash memory for up to 1740 measuring cycles
Data transmission incl. status reports and error messages	via GSM / GPRS quad band modem to Device to Web (D2W) server, automatic login with most powerful network without extra costs, rod antenna standard

Level Probe - AquaBar II	
Enclosure	- material: Polyurethane, 2 x 0.14 mm² shielded, Ø = 9 mm - weight: 1200 g (with 10 m cable) - protection: IP68 - dimensions: Length - 125 mm, Diameter - 27 mm
Connection cable	Polyurethane, 2 x 0.14 mm ² shielded, Ø 9 mm
Meas. diaphragm	stainless steel
Operating temperature	measuring medium, -10 °C to +70 °C
Storing temperature	-25 °C to +70 °C
Max. humidity	80 %, non-condensing
Accessories	
Adapter suspension	for installation in 3" to 6" level pipes using SEBA mast cap
Dome antenna	antenna set with accompanying antenna cable in various lengths up to 6"



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