Level sensor
LHC

Applications:

This IoT device is a stand-alone communicating logger for drilling. The LHC (M) integrates directly into shaft openings or piezometers and measures water height and temperature. They automatically transmit their data.

Economical and high-performance:

With a battery life of up to 10 years and a discreet and fast installation due to being integrated into the piezometer, the LHC allows you to minimise your maintenance and installation costs.

The LHC measures up to 150 metres deep with a precision of 0.05% full scale, making it easy to adapt to all your needs.

Communicating:

Data transmission is via ftp, sms and MQTT and SMS alerts are sent via the integrated GSM/GPRS/3G modem.
The data can be viewed through your usual supervisor, a simple Excel spreadsheet or even directly to your smartphone without proprietary applications.

Available:

• Large stock of all models.
• Fast delivery
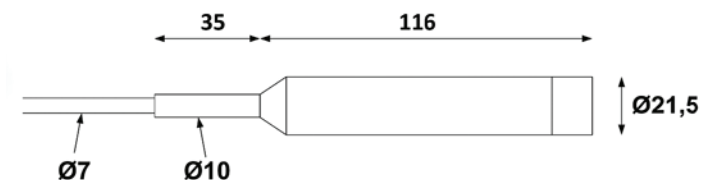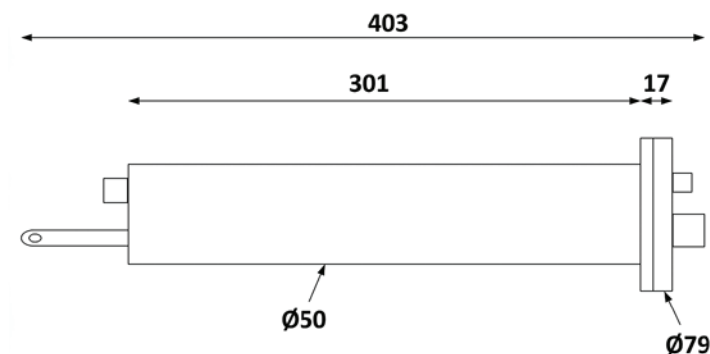• Constant technical availability
  to answer your questions.

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LHC/LHM Communicating logger	
Memory capacity	> = 500 000 measurements
Power supply	user-changeable 6.0V 12.5Ah lithium battery
Autonomy	> 10 years (1 measurement/hour, 1 transmission/week)
Settings	By HMI sensor software via USB (micro USB connector)
Operating temperature	- 20°C to + 60°C
Storage temperature	- 20°C to + 60°C
Fast transients EN 61000-4-4	Level 3
Lightning surge resistance EN 61000-4-5	6KV
Standards: (CE marking)	EN 61326-1, Immunity: Industrial Environment
Protection rating	IP67
Case dimensions	See diagram
Length	453 mm with whip antenna (LHC version)
Weight	1490g
Body material	304L stainless steel
Type of antenna	Whip antenna fixed onto the case or, optional cabled antenna pad
Antenna connection	TNC connector (LHC version)
Modem	GSM/GPRS/3G
SIM card format	Mini SIM
Protocols	MQTT, FTP, SMS

LHC/LHM Sensor SFP	
Measured parameters	Level (or pressure) and Temperature: Measuring range: 0 - 10m (SFP10), 0 - 40m (SFP40), 0 - 90m (SFP90), 0 - 150m (SFP150)
Level measurement resolution	1 mm
Level measurement precision	+/-0.05% of the full scale (SFP10, 90, 150), +/-0.1% of the full scale (SFP40)
Temperature measurement resolution	0.1°C
Temperature measurement precision	+/-0.5°C
Operating temperature	-20°C to + 60°C
Storage temperature	-20°C to + 60°C
Standards: (CE marking)	EN 61326-1, Immunity: Industrial environment, Emission: Class B, EN 61010-1, EN 62479, EN 50581
Standard ISO	ISO 4373
Protection rating	IP68 permanent duration
Body dimensions	Ø 21.5mm, Length = 116mm
Weight	150g + 60g per metre of cable
Probe body material	Stainless steel 316 L
Cable	Stainless steel 316 L
Length	on demand

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