GL-3000 Liquid Level Datalogger

Features

- ✓ Digital temperature compensation and non-linear correction
- ✓ RS485 interface — Modbus-RTU / ASCII protocol
- ✓ Stores more than 130,000 measurement records
- ✓ Battery powered — ultra-low consumption, long standby time
- ✓ All-stainless-steel, fully welded construction — high reliability and long-term stability
- ✓ Customizable for special applications (housing, sensor, cable material, communication protocol)

Introduction

The GL-3000 liquid level datalogger is a fully sealed, submersible level measuring instrument. A high-stability, high-accuracy sensing element and a precision transmitter circuit are assembled into a single stainless steel housing. The integrated construction and battery supply make the instrument easy to deploy. The unit is fully sealed and can be permanently immersed in liquids that are compatible with the wetted materials.

The GL-3000 is compact and light, with excellent long-term stability. It is suitable for water level and liquid level measurement in water resources, hydrological survey and comparable fields. Acquisition interval configuration and data export are supported.

Parameters

Item	Parameter
Level range	0~5, 10, 20, 50, 100, 200 mH_2O (other ranges on request)
Pressure range	-100 kPa ~ 0 ~ 100 MPa (other ranges on request)
Overpressure	2 × full scale
Level accuracy	±0.05 %FS, ±0.1 %FS
Temperature accuracy	< ±0.1 °C @ (-20 ~ 80 °C)
Long-term stability	±0.2 %FS per year (range > 20 mH_2O)
Operating temperature	-10 ~ 70 °C
Storage temperature	-40 ~ 100 °C
Power supply	3.6 V, 4000 mAh lithium battery
Output signal	Modbus-RTU
Power consumption	13 µA standby (typ.), 2.3 mA active (typ.)
Housing	Stainless steel 304 (316L, titanium alloy etc. on request)
O-ring	FKM (fluororubber)
Diaphragm	Stainless steel 316L
Outer diameter	27 mm
Overall length	210 mm

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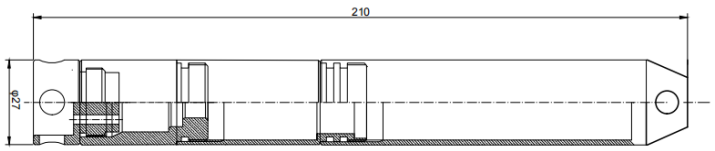
Temperature error

Range	Zero	Full scale
> 10 mH_2O	0.02 %FS/°C	0.03 %FS/°C
≤ 10 mH_2O	0.02 %FS/°C	0.025 %FS/°C

Dimensions (mm)



Outer diameter: 27 mm
Overall length: 210 mm
Body material: stainless steel
All dimensions in mm.

Electrical connections

Pin	Connection	TYPE-C
1	Power negative (0V / +OUT)	TYPE-C to USB adapter
2	Power positive (+V)	
3	485A	
4	485B	

Order Guide

GL-3000	Liquid Datalogger			
	Code 1	**Level range**		
	[0~XmH2O]	X = required range in mH_2O, 0~1 ... 200 (customisable)		
		Code 2	**Communication interface**	
		R8	Standard Modbus RS485 protocol	
			Code 3	**Accuracy class**
			C	0.1%FS
			B	0.075 %FS
			A	0.05%FS
GL-3000	[0~30mH2O]	R8	C	

Completed Sample: GL-3000-[0~30mH2O]-R8-C

Notes

1 The measured medium must be compatible with the wetted materials. Please also state the density of the medium under the measuring conditions (water excepted).

2 Unless otherwise specified, the instrument is supplied with 0.1 % accuracy class and a 304 stainless steel housing.

3 For any other special requirements, please contact us and state them on the order.

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