

Water Level Chip Logger Tough Level Series

	Tough Level C	Tough Level G	Tough Level U
	Absolute Pressure Type	Gauge Pressure Type	Ultrasonic Type [Under development]
Water Level Sensor			
	By measuring water pressure and air pressure separately in a sewage pipe and channel, the water level will be calculated from the difference between these pressures.	Device configuration, measurement control(start/stop), data checking and downloading can all be performed via a vented cable connected to a PC.	Mounting this logger on top of pipes and channels, water level can be measured without a dead zone of ultrasonic by a 45 degrees reflection plate. (Measurable span: 0 to 0.5m, Accuracy: +/- 1mm)
	Two loggers are required. One for air pressure and the other one for water pressure.	This is especially useful when collecting data from a distance, such as in underground water level monitoring, without needing to remove the logger from its installed location.	It will help a low water level measurement in a small diameter pipe at mid-night.
		Only one logger is required for water level measurement.	
Wetted Material	316 Stainless Steel, Delrin® & Rubber Buna (PFAS free Wetted Materials)		
Operational Range	0cm ~ 10m		
Logging Intervals	1~255 seconds, 1~255 minutes, 1~255 hours (*adjustable)		
Water Level Accuracy	± 0.1%FS (± 10mm/10m) (0° C to 50° C)		
Battery	Lithium Primary Battery		
Battery Life (Readings)	approximately 2 years at 1-minute intervals (approximately 6 years at 3-minute intervals)		
Operating Temperature	-20° C to 80° C		
Memory	128,000 readings 88 days at 1-minute intervals (264 days at 3-minute intervals) (*Stored data can be deleted)		
Download Speed	128,000 readings downloads in 6 minutes		
Weight	200g	160g	Under Development
Size	φ 22.5m x 163mm	φ 22.5m x 136mm	
Supported Pressure Units	Meters, Feet		
Supported Temperature Units	Celsius, Fahrenheit		
Ingress Protection	IP68		
Communication Interfaces	USB, RS232		
Image Diagram			