

Datalogger Type 575-II

Measuring and recording of
Water Level and **Temperature**

- Integrated power supply
- Precise sensors
- No desiccant required



- Long-term monitoring of groundwater level and temperature
- Level measurement on surface water
- Monitoring of the bog body in bog protection projects and waterlogging
- Recording of level and temperature during pumping tests in production- and observation wells
- Continuous water level measurements in a measuring weir or channel
- Slug & Bail-tests
- Documentation of groundwater lowering
- Construction site and landfill monitoring
- Groundwater regeneration monitoring
- Measuring the impact of climate change on the aquifer





Maintenance-free groundwater data logger

Designed for years of use in groundwater wells and for simple level measurement in surface water. The Datalogger type 575-II combines robustness, precise measurement data, maintenance-free and simple operation.

Whether for short use on the construction site or for long-term recording of a series of measurements, this device is built for tough field use!

Installation and putting into operation

The fastening-ring of the Datalogger type 575-II is designed for hanging the device in a 2"-DN50 observation well. By using a HT Water Level Meter, control measurements can be carried out without removing or lifting the device.

A device falling into the groundwater well is not possible due to the dimensioning.

A suitable, quick-changeable fastening-ring is available for smaller observation wells from 1".



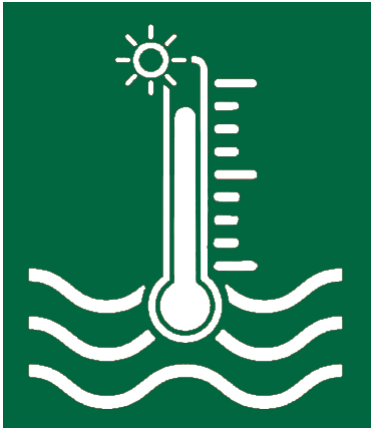
Well Cap 2 inch – DN50



For larger observation wells from 3", an intermediate ring is placed on the well cap. The Datalogger is then mounted using the same principle. Device installation is quick, easy, and secure against falling into the borehole. The well cap is closed as usual, the device installation is not visible from outside.

Well in manhole, use of intermediate ring

Additional temperature measurement



How is the groundwater temperature developing as a result of climate change, increased use of geothermal energy or in urban areas? Questions for which no separate measurement campaign is usually carried out, but can only be proven by means of long-term observations.

With the Datalogger type 575-II you can also measure the temperature with an accuracy of 0.1°C . Don't go without a precise temperature measurement!

Device operation



Whether wired with a Windows notebook/tablet or wireless via Bluetooth and smartphone.



When using the Datalogger type 575-II, you have a free choice of mobile end devices for setup, regular device checks and for data transfer of the measured values.



You can operate the Datalogger type 575-II completely using your Windows, Android or iOS device.



For communication via cable, we offer suitable interface cables for a USB interface as well as for a serial interface.



Use the Bluetooth stick for wireless communication for your Windows, Android or iOS device.



Technical Data

Product name	Datalogger Type 575-II
Description	Measuring and recording of Water Level and Water Temperature
Device data	
Memory	4MB flash memory non-volatile; for at least 338,600 data sets = 677,200 measurements
Power supply	Integrated lithium battery; lifetime for 10 years with 3,000,000 measurements; battery replacement at HT, always in combination with sensor calibration and replacement of all seals for further long-term use
Measuring intervall	User-configurable from 1 second until 99 days; up to 10 measurement intervals can be preselected
Clock	Integrated Real-Time-Clock, accuracy: < 2 minutes / year
Operating temperature	-25°C till +70°C
Level measurement	
Measuring principle	Relative pressure measurement
Measuring range	Max. 0-300m water column; freely selectable within this range
Accuracy	< 0.05% of selected measuring range
Long term stability	< 0.05% of selected measuring range / year
Resolution	Standard: 1cm / Optional by extended calibration service: 1mm
Temperature compensation	-5°C...+50°C
Sensor	Piezoresistive pressure cell, overload-proof max. 2-fold of measuring range
Temperature measurement	
Measuring range	-5°C...+50°C
Accuracy	< 0.1°C
Long term stability	< 0.02°C / year
Resolution	Standard: 0.1°C / configurable: 0.01°C
Mechanical Data	
Length of cable	selectable until max. 500m
Submersion depth	max. 2- fold of selected measuring range or max. 300m (whatever is smaller)
Vented cable	Ø 6mm flexible, PUR jacket with Kevlar core for strain relief and internal pressure compensation hose; including shield
Materials	Stainless steel 1.4571 / V4a; POM glass fiber reinforced; FPM, PUR
Dimensions Probe	Ø 22 x 165 mm
Dimensions Reading unit	Ø 24 x 160 mm
Protection class	IP 68, flood-proof up to 3m water column, no desiccant required
Operation	
User interface	RS 232; can be addressed via serial and USB interfaces as well as wirelessly using a Bluetooth stick
User software Windows	touch-friendly for PC, laptop, tablet under Win7, Win8/ 8.1 Win10 and Win11
User software- Android App	for Tablet/Smartphone from Android 10 / wireless via Bluetooth-Stick
User software- iOS App	for iPad/iPhone from Version 10 / wireless via Bluetooth-Stick
User software Win Mobile	for Pocket PC's from Version 5.0 / via serial interface
File- format	Desired data format can be selected via operating program
Integrated File-formats	dat; xlt, csv; mis; zrxp, lgd; uvf and many more