

Datalogger Type 575-LTC

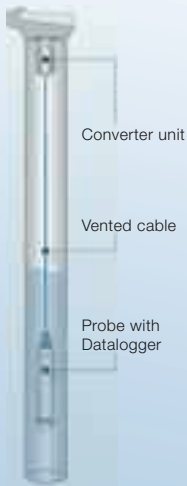
Measuring and Recording of:

- ▶ Water Level
- ▶ Water Temperature
- ▶ Conductivity / TDS

Advantages:

- Maintenance free – no drying cartridges or desiccant necessary
- Integrated battery for 10 years or 3 Million Measurements (Sample interval of \approx 2 Minutes over 10 years)
- \varnothing 22 mm, for installations from 1 inch pipes
- Highest precision and long term stability by 4-pol conductivity sensor
- Particular, convenient operation by touch operation
- Flood protected – durable seal until 3 m water column
- Robust stainless steel design

Description



The Datalogger type 575- LTC is a compact analysing instrument for the documentation of water level, temperature and electrical conductivity. Additionally, from the conductivity values the TDS can be calculated if needed.

The built-in lithium battery powers the Datalogger over the guaranteed period of 10 years or 3 million measurements. A battery replacement is performed at HT, which always includes a general equipment check-up and a recalibration of the sensors.

Highest data security is achieved through

the used non-volatile flash memory, which can record at least 253,000 data sets.

The Datalogger type 575- LTC is designed for the practical user, installation can be executed very quickly and without training, the menu is clearly structured. An exchange of the desiccant or other maintenance work is not necessary.

Highest quality standards for conductivity measurements will be fulfilled with this Datalogger, the complete design is based on over 20 years of experience in the field of water quality measurements.



Typical Applications

- Measuring and Recording of salt water intrusion in coastal areas
- Measurement of Water level, Temperature and Conductivity / TDS during Pumping Tests
- Monitoring of production and observation wells
- Tracer measurements
- Level- and quality monitoring of surface water
- Remediation of contaminated areas
- Monitoring of landfills



Optimized power consumption, 50% more measurements

This Datalogger Type 575-II was developed with new power-optimized components. For you as a user it means that we can dramatically extend the guaranteed battery-lifetime.

The new guarantee conditions are: 10 years or 3 million measurements! That is a lifetime over a period of 10 years at a recording interval of ≈ 2 Minutes without replacing the battery.

After that time the battery exchange will be done fast and uncomplicated in our factory service department inclusive recalibration and exchanging of seals.

Highest precision and especially long-term-stable conductivity values

A highly accurate 4-electrode conductivity sensor with integrated temperature sensor is used. Over many years, stable and accurate conductivity values will be given without the need for a re-calibration. The Datalogger 575-LTC offers the possibility of an automatic temperature compensation to the reference temperature of 25°C.

The following settings are available:

- Sets an automatic temperature compensation based on 25°C according to DIN EN 27888
- Adjustment of an individual coefficient in % / °C for individual liquids
- Measurement without compensation, it will output the conductivity at the current temperature

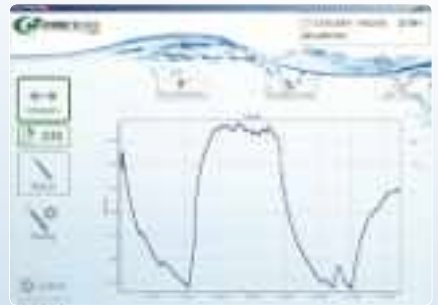
Datalogger configuration and data transfer – modified operating software

So far, we hear from customers that the operation of HT Dataloggers is quite simple. It requires no training when you operate the first time or if you do not regularly work with the devices you can operate the systems very quickly again without mistakes.

Actually, exactly the words you want to hear as the manufacturer. Nevertheless, we put time and manpower into a new operating concept that aims not only to a more attractive design of the operating program. In particular, it was important for us to respond with a new operating concept on innovations in the PC market, means for the user a wider selection of PCs and control-devices.

Touch-enabled is not synonymous with touch-friendly!

As currently the first manufacturer of groundwater Dataloggers we have adjusted the operating program also to touch PCs. This means on the one hand, that possibly cherished menu structures disappear. On the other hand, the Datalogger can now be easily operated without a touch pen and especially without a PC mouse which is during sunlight always a difficulty to move from one point to the next. The operating program is operated with a finger, which is known not to forget in the office, disappears in the tall grass or falling into the borehole. With this new operating concept, we are sure that we will make your job easier! Conventional devices, be it laptop or Pocket PC can of course still be used and are also supported by HT.



Datalogger installation – simple, conveniently and safely from 1 inch wells

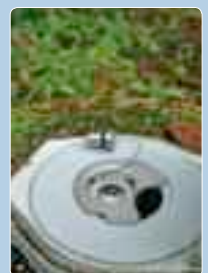
Secure Installation

Supreme motto for the installation of HT Dataloggers, all possible precautions are taken so that the device can not fall into the borehole. By the standard fixing-ring of 2 inch (DN50) the Datalogger can be easily adapted to HT well caps. Check measurements with the Water Level Meter can be performed directly without removal of the Datalogger.

For smaller pipes HT can provide suitable fixing-rings, for check measurements, the converter unit of the Datalogger needs to be moved a few Centimetres.

For observation wells with a diameter of 2.5 inch or larger, intermediate rings are used to secure the fixing of the Datalogger. In cause of the design of the diameters it is not possible that the Datalogger can fall into the borehole.

Please contact us if you have special sizes or special conditions of use. We can draw from an extensive archive of already implemented mounting options for Dataloggers.



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Water Level

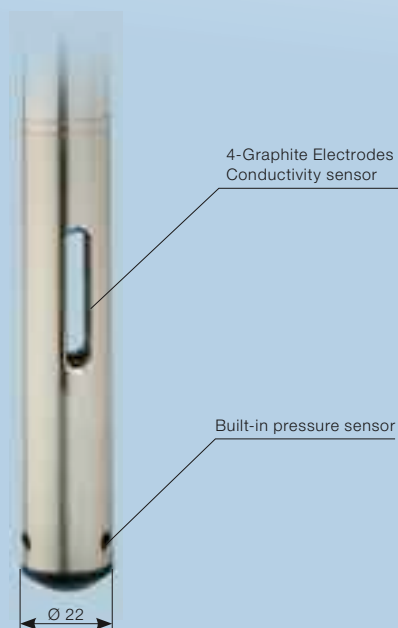
Water Level	Relative pressure
Measuring range	selectable from 1 ... 300m water column
Accuracy	< 0,05% of selected range
Long-term stability	< 0,05% of selected range / year
Resolution	Standard: 1 cm / Optional: 1 mm
Temperature correction	0 ... +50°C / Optional: 0 ... +70°C

Temperature

Measuring range	-5 ... +50°C / Optional: -5 ... +70°C (Ice-free area)
Accuracy	< 0,1°C
Long-term stability	< 0,02°C / year
Resolution	0,1°C; Optional: 0,01°C

Conductivity

Measuring range	0 ... 200.000 µS/cm
Accuracy	< 0,5% of current value, min. 2 µS/cm (0,002 mS/cm)
Resolution	0,001 mS/cm until value of 2 mS/cm 0,01 mS/cm until value of 20 mS/cm 0,1 mS/cm until value of 200 mS/cm



Device data

Memory	Flash-memory 4MB for min. 253,000 recordings = 759,000 values
Power supply	Integrated Lithium-battery; guaranteed lifetime for 10 years or 3,000,000 measurements; Factory replaceable
Sample interval	Adjustable: 1 minute to 99 days Optional: from 1 second, 10 sample intervals pre-selectable
Interface	RS232, communication via serial and USB-interface
Accuracy clock	< 2 minutes / year

Mechanical Data

Length of cable	Freely selectable until max. 500 m
Sensor immersion depth	max. 300m water column
Vented cable	Ø 6 mm flexible, UV-resistant PUR coating; Kevlar strengthen to avoid cable-stretching; integrated tube for compensation of barometric fluctuation
Pressure transducer	Membrane made from Titan; Overload max. 4 fold FS, stability max. 2 fold FS
Conductivity sensor	4-Graphite electrodes; long-term stable and insensitive to contamination or dirt
Materials	Stainless steel 316Ti; POM fibreglass reinforced; Viton
Dimensions probe	Ø 22x315 mm
Dimensions conv. unit	Ø 24x140 mm
Protection class	IP 68, converter unit permanent seal until max. 3 m water column

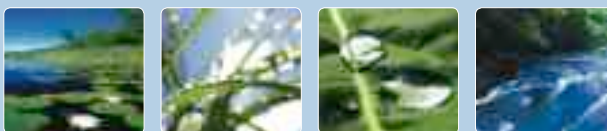
Operating software

Operating software Notebook / PC / Touch	Touch-friendly PC user interface; for XP, Vista, Win 7, Win 8 / 8.1
Operating software Pocket PC	Full functionality for operating program Win Mobile 5.0; 6.0; 6.1
Data file-format	Files are available as directly readable ASCII- files
Available formats	HT-Standard, Excel; *.zrxp; Labdüs; *.lgd; *.uvf; and many more Not the correct format there? Our software department can create the desired file-format

Manufacturer

HT Hydrotechnik GmbH

Im Wang 18 · Industriegebiet
87634 Obergünzburg / Germany
Tel.: +49(0)8372/9215-0
Fax: +49(0)8372/9215-16
eMail: service@ht-hydrotechnik.com
Internet: www.ht-hydrotechnik.com



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