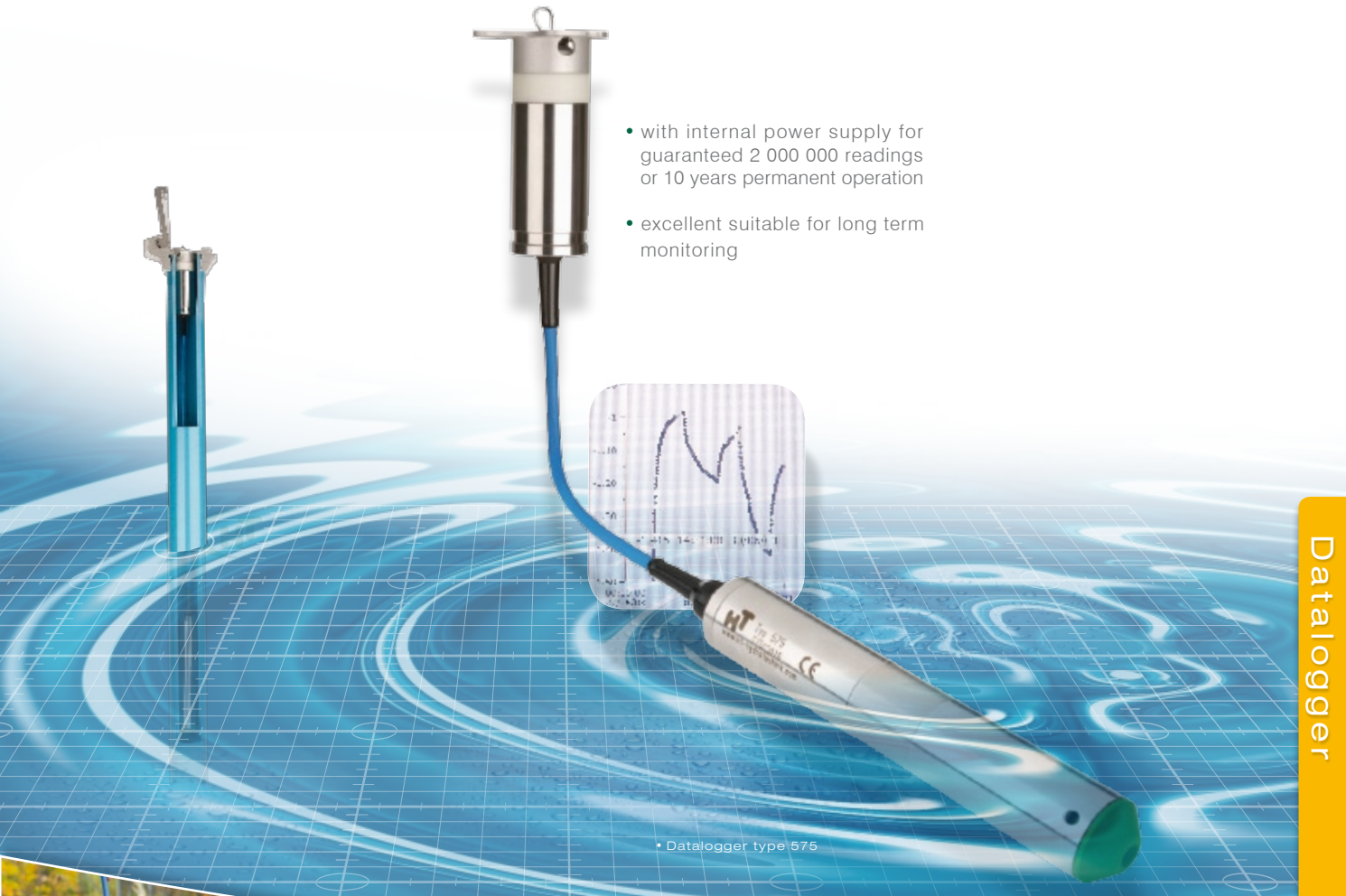
HT HYDROTECHNIK GMBH

Datalogger type 575 compact

For **measuring** and **recording** of **water level** and **temperature** in **groundwater wells** and **observation pipes**

- with internal power supply for guaranteed 2 000 000 readings or 10 years permanent operation
- excellent suitable for long term monitoring



• Datalogger type 575

Datalogger





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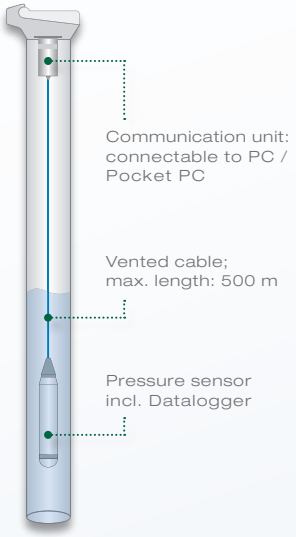
Datalogger type 575



Groundwater observation well

Areas of application

This Datalogger has proved over many years that reliable monitoring of ground water wells can also be cost-effective. Even the most adverse conditions such as heat, high humidity or extreme cold could not influence the sovereign working of the Datalogger type 575. Preferred areas of operation are groundwater wells, groundwater observation sites, surface water such as lakes or rivers and tanks. During pumping tests, long term observations or even operations in measuring fields, this Datalogger performed its service as a matter of priority.

Ecologically friendly and efficient power supply

For the already integrated lithium battery we provide a 10-year guarantee or 2,000,000 measurements. This corresponds to a reading interval of about 3 minutes over the operational life of 10 years. Battery exchange and disposal is carried out by our Service Department.

Automatic compensation of the barometric fluctuation

The Datalogger is designed to measure the relative pressure. The atmospheric pressure is impinged on the back of the measuring membrane. Thereby, a separate barometer-Datalogger and consequent adjustment is NOT necessary. In order to achieve this, a special vented and flexible cable is employed. By means of a special breathable filter with short reaction terms of < 1 second, the instrument is protected against the infiltration of moisture and flooding until 3 m water column. This method was developed by us more than 15 years ago, and continues to prove itself every day. Unreliable and maintenance intensive drying cartridges or dehydrating agents are NOT necessary.

Installation, operation and data management

The Dataloggers type 575 are preferred installed in groundwater wells with HT Well Cap. The parameterization and the data download from the instrument can be realized by every PC / Notebook or alternatively by the Pocket-PC RECON. The operating programme contains, amongst others, a graphic function for the immediate interpretation of the downloaded data, a function to display the current values to compare them with a manual taken measurement, downloading of the whole memory content and setting the measured values directly at M.S.L. - and much more....

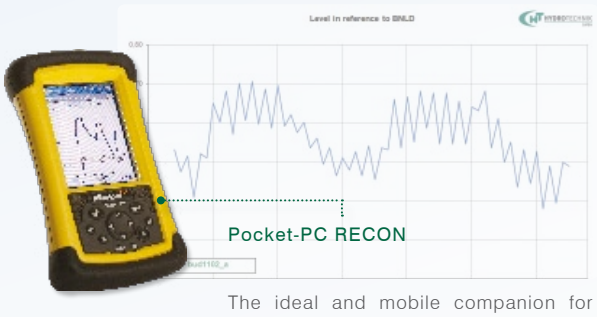
Unhindered by the many functions, only a click to download the data, to display the current values or to record the manual taken check measurements, at the same time carrying out a functional check of the datalogger. Thus, a speedy procedure for regular readouts and even measuring fields is possible.

When we developing products, we direct our attention to an easy handling which saves long trainings and learning processes.

Manual check measurements by a Water Meter are feasible without removal of the Datalogger.

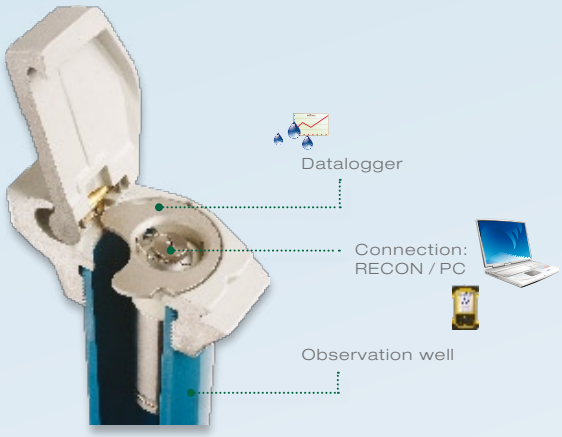
Special features

- Excellent price-performance ratio
- Compact design for installations in pipes from 1¼ inch
- Power supply for 10 years or 2,000,000 measurements
- Since several years partial in harsh conditions in use



The ideal and mobile companion for all HT Dataloggers. The Pocket-PC RECON is able for the whole parametrization like easy data downloading and data handling

Datalogger type 575



By using HT well caps and intermediate rings, the Datalogger is unable falling down in the borehole

Technical data

Water level	
Measuring range	selectable from 5 to 300 m water column
Resolution	0.5 cm / measuring range until 50 m 1 cm / measuring range from 50 m optionally: 1 mm / measuring range until 20 m
Accuracy	< 0.05 % full scale / exemplary: 1cm for a choosen measuring range of 20 m
Temperatur compensated	0 °C to +50 °C
Long-term stability	< 0.05 % full scale / year

Temperature	
Measuring range	0 °C to +50 °C
Accuracy	< 0.1 °C

Measuring cell	
Material	stainless steel 316 Ti; Measuring membrane made of Titan
Overload	max. 4-fold FS, stability to 2-fold FS

Materials	
Housing	stainless steel 316 Ti; POM fibre-glass reinforced
Seals	Viton, special encapsulated electronic part

Weight	
Sensor incl. Datalogger	0.52 kg
Readout unit	0.22 kg
Vented cable	0.55 kg / 10 meters

Other Data	
Data memory	for 15872 data readings = 31744 measurements
Measuring intervall	adjustable from 1 min to 99 hours 59 min; optional from 1 sec
Cable length	selectable to max. 500 m
Interface	RS 232; with adapter cable also USB
Dimensions (Sensor incl. Datalogger)	Ø 29.5 mm x 190 mm
Dimensions (communication unit)	Ø 30 mm x 95 mm
Operation temperature	from -30 °C to +70 °C / in ice-free area
Recommended storage temperature	+5 °C to +35 °C
Vented cable	UV-resistant PUR coating; Kevlar strengthen to avoid cable-stretching; including integrated tube for the automatic compensation of the barometric fluctuation

Expansions	
File Format	ASCII and Excel Standard; special formats are configurable by our software department
Variable cable lenghts	through waterproof plugs with extension cable

Changes in performance features and technical data are permitted.

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HT HYDROTECHNIK GMBH

Instruments and Monitoring for ground- and surface water

Phone +49 8372 9215-0 **Internet** www.ht-hydrotechnik.com Germany - Im Wang 18
Fax +49 8372 9215-16 **E-Mail** service@ht-hydrotechnik.com 87634 Oberguenzburg