



You will return to the contents of P2 WATER by clicking the pictogram

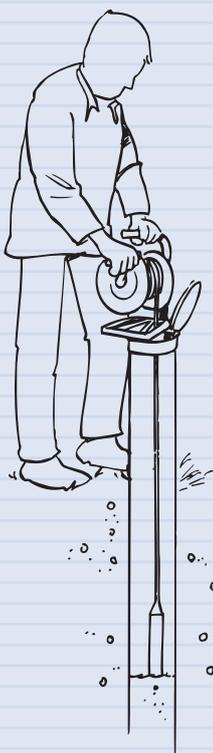
WATER LEVEL MEASUREMENTS

P2.20

Measuring the water level with the aid of the hand operated sounding apparatus.



Measuring the water level with the sounding apparatus provided with a frame, in deeper monitoring wells.



GROUNDWATER LEVEL

Water level measurements form the basis of hydrologic soil examination (porosity of the soil, determination of the current direction of the groundwater, etc.).

Several systems are available for measuring and registering water levels in boreholes, casing tubes, monitoring well pipes, water wells, open water, tanks, etc. The sounding apparatus, with acoustic and light signal, are used to determine liquid levels in boreholes, monitoring well pipes, etc. The measurements are performed and read-out manually.

The electrical water level meters usually measure the water level with a pressure transducer. The data are recorded by means of a datalogger. With a floating layer thickness meter, we can distinguish between the level of conductive and non-conductive liquids.

11.03 Sounding devices with acoustic and light signal

The devices are provided with a probe, which is connected to a measuring tape with centimeter graduation.

When the probe touches a conductive liquid, a clear acoustic and light signal is produced. If the cable is then lifted a little, the signal will stop. Determination of this point allows the user to read the depth directly from the measuring tape (accuracy: ± 0.5 cm).

The measuring tapes are available in several lengths, on a reel, with or without a frame.

Advantages

- An inexpensive and simple, but reliable instrument.
- Solid construction of cold-resistant synthetic material.
- Small diameter of the probe allows application in virtually any monitoring well pipe.



Sounding apparatus with acoustic and light signal

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11.01 Sounding devices with measuring tapes

A sounding device is really just a small tube, closed on one side, with a diameter of 17 mm. When the open bottom touches the liquid level at a fair speed, a "popping" sound can be heard. In normal conditions the sound is clearly audible until a depth of 10 meters. When it has reached its depth, the device is moved up and down over short distances for a more accurate level determination. Its accuracy is ± 0.5 cm. The measuring tapes are designed for use with the sounding device, allowing the reading at ground level to be consistent with the actual depth of the groundwater.

11.08 Floating layer thickness meter with acoustic and light signal

The probe of the floating layer thickness meter distinguishes between conductive and non-conductive liquids. A light signal indicates which liquid is touching the probe at that moment.

The floating layer thickness meter can be used to determine the (ground)water level, the oil level and

the thickness of the floating layer. The meter is available in various cable lengths.

11.11 Diver groundwater data loggers

The Diver is the smallest instrument in the world for automatic measurement and registration of groundwater levels and groundwater temperatures; the CTD-Diver also measures conductivity. The Diver fits in the palm of your hand and is remarkably light. With its length of only 90 mm (183 mm for the CTD-Diver) and a diameter of 22 mm (18 mm for the MicroDiver), the Diver can be used in virtually any monitoring well.

Sound and reliable

The pressure sensor, temperature sensor, the conductivity sensor, as well as the datalogger and battery are contained within a hermetically sealed stainless steel or ceramic housing. This ensures that the Diver is less sensitive to moisture or external electrical influences (Faraday cage). The Diver can be installed in the monitoring well simply suspended from a steel wire.

Once installed, no part of the monitoring system

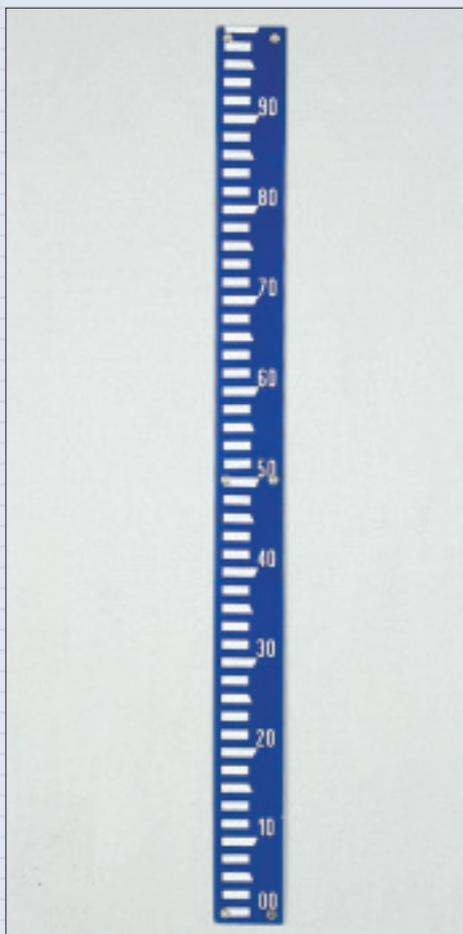
The floating layer thickness meter is used to determine position and thickness of a floating layer.



Measuring tapes with sounding device



Floating layer thickness meter



Staff gauge

BENEFITS

11.08. Floating layer thickness meter

- Accurate reaction on liquid with infra red light
- Traditional reaction on water by conductivity
- Suits floating as well as sunken hydrocarbons
- Works in the smallest (> 20 mm)
- Can be earthed for maximum security



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Before installation all Divers for a project are programmed at the office with a PC.



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is left protruding above ground level, greatly reducing the risk of vandalism. The Diver can now automatically measure the groundwater level and temperature and register these data in the internal memory. The built-in battery has a life of approximately 10 years.

Programming

Programming the Diver, either in the field or in the office, is a matter of just a few seconds. Simply enter the location, (future) starting time, sample rate and select either a fixed measuring frequency, a fixed set-up or an event-related frequency.

The Diver is available in various designs:

The **MiniDiver®**: stainless steel housing and ceramic pressure sensor, diameter 22 mm, length 90 mm, available in various measuring ranges, memory capacity 24.000 measurements.

The **MicroDiver®**: stainless steel housing and ceramic pressure sensor, diameter 18 mm, length 90 mm, available in various measuring ranges, memory capacity

48.000 measurements.

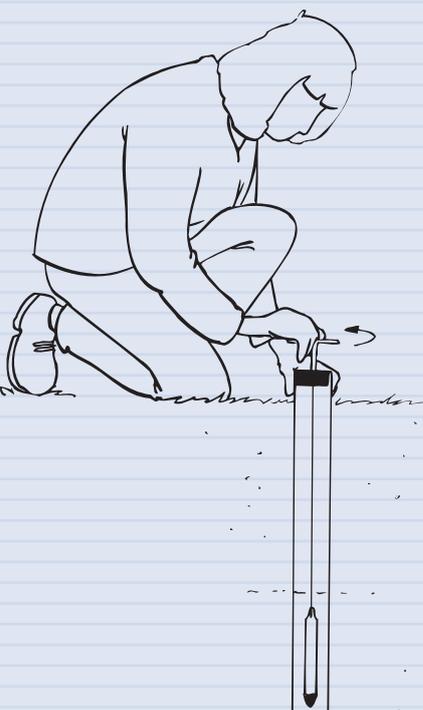
The **CeraDiver®**: ceramic housing and ceramic pressure sensor, diameter 22 mm, length 90 mm, available in various measuring ranges, memory capacity 48.000 measurements.

The **CTD-Diver** has a ceramic housing, ceramic pressure sensor and platinum/ceramic conductivity sensor (measuring range 0 - 80 mS/cm), diameter 22 mm, length 183 mm, available in various measuring ranges, memory capacity 16.000 measurements.

The CTD-Diver is a compact instrument that allows you to measure the groundwater level, groundwater temperature and conductivity of the groundwater all in one. Where monitoring groundwater, especially where it concerns decontamination of polluted soil, the monitoring of rubbish dumps and the detection of salination, once used to be a labour-intensive and troublesome job, the arrival of the CTD-Diver has changed all that.

The **Baro-Diver** has the function to register barome-

After installing the Diver the monitoring well is closed completely (no equipment outside the well).



Diver groundwater dataloggers

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tric pressure. Compensation for these atmospheric pressure variations is subsequently carried out simply and easily with the use of the Logger Data Manager (LDM) software program.

Reading Diver data

There are different options to install Divers in the field or to read out Diver data in the field or the office environment:

If the Diver is installed in the borehole with use of a standard stainless steel cable, the Diver has to be removed from the borehole to read out the data. The Diver is connected to the computer using a special reading unit.

Next to the standard stainless steel cable used to install a Diver in a borehole, the Diver Data Cable (DDC) is the other option. With the Diver Data Cable the Diver can be connected to the top of the borehole. This allows reading out the Divers' memory changes without removing the Diver from the well. Diver

Data Cables are available in standard lengths for attachment to any Diver type, even up to 200 meter length. To connect a laptop PC or pocket PC to the wellhead, a 1,5 m interface cable is quickly attached. This allows downloading and / or programming in the field.

The **Pocket PC software** is designed to reduce field time and the software is developed for use on a pocket PC and to download logged data or view readings from any Diver model. The system can then be transported back to the office for data transfer to a PC.

The small device makes data collection easier than ever and avoids the need to take an expensive computer, hand-held PC or laptop into the field. The system can be used for Divers installed with a Diver Data Cable (DDC) but also with Divers suspended by a stainless steel cable. For this last option, the Diver has to be removed from the borehole and placed into the reading unit.

Programming and reading the data is a simple matter with the use of a read-out unit and a PC (laptop or field computer).



Pocket PC and Diver reading unit



IrDa connection on top of Divers



CTD-Diver (ceramic housing)

BENEFITS

11.11 Diver groundwater dataloggers

- All in one smart water level datalogger
- No mechanical parts, no wear
- No air vent; flooding is no problem
- Ranges vary from 5 – 100 meters !
- Can be read on site or in-situ with DDC cable
- Can be combined with e-SENSE telemetry
- Software enables easy data in and output
- Many output formats
- Barodiver logs air pressures variations
- Smart wizard to subtract air pressure variations
- Ideal for wells, also applicable in open water
- CTD variety adds conductivity
- CTD variety long term sea water proof ceramic

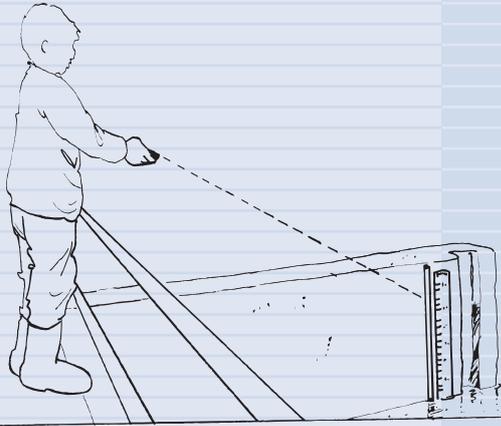


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The e+ WATER L is read with the aid of the infrared read-out unit.



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All members of the Diver family can be used as an e+ sensor in the e-SENSE system.

SURFACE WATER LEVEL

e+ WATER L

The e+ WATER L (Level) sensor is an intelligent and accurate sensor for the measurement and registration of the levels and temperatures of surface water. The level measurement values are automatically (internal) compensated for variations in air pressure and water density variations due to temperature fluctuations. The sensor is frost resistant and can be applied in all seasons without any problems.

The e+ WATER L:

- ❑ Measures and registers the level and temperature of surface water.
- ❑ Lets the user determine himself how frequently the registration is carried out.
- ❑ Gives, if required, an alarm when exceeding the limiting value of either the level or the tempera-

ture.

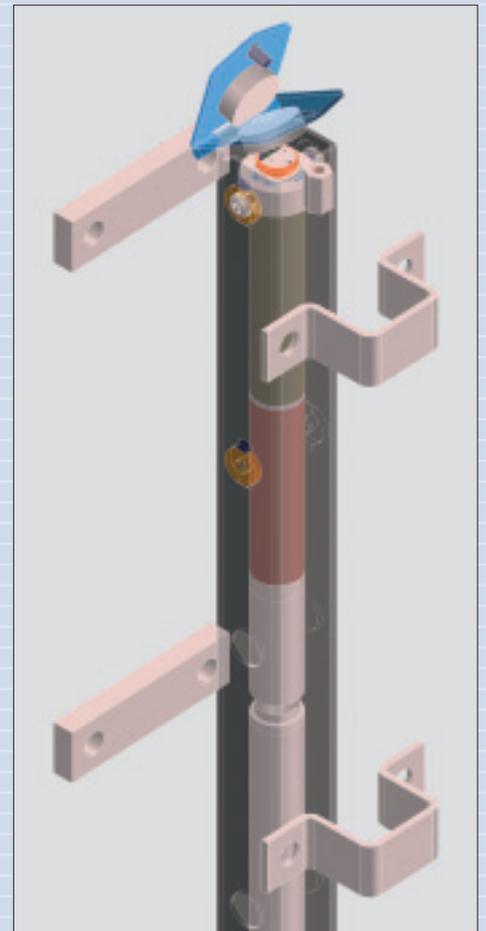
- ❑ Has adjustable signal filtering (over sampling).
- ❑ It is a simple instrument.
- ❑ Fits seamlessly into the e-SENSE system whereby registered measurement data and / or alarms are transferred.
- ❑ Can be optionally provided with a robust and functional mounting system, which is easy to combine with existing level indicator systems.
- ❑ Is fitted with very stable and accurate sensors, which make continuous measurements possible in the field over long periods.
- ❑ With CE quality mark, meets the EMC guidelines.
- ❑ The e+ WATER L is available in various lengths (for water fluctuations to a max. of 2 meter).

The e+ WATER L sensor can be configured and read out in various ways:

- ❑ With an e-SENSE modem via e-SENSE direct.
- ❑ With a readout unit (IR), the readout unit is used when the e+ sensor can be brought into the immediate vicinity of a PC (laptop).



e+ WATER L sensor / logger



e+ WATER L in protective housing

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- ❑ Via a data cable (IR) available in various lengths till 200 m.
- ❑ Via an IrDa readout unit. The IrDa readout unit is intended for reading out the measurement data of the e+ sensor with the help of a laptop computer. This can take place at a distance of 1 to 2 metres from the e+ sensor. For this the IrDa readout must be pointed towards the infrared LED's on the end of the e+ sensor.
- ❑ The e+ WATER L is configured with the help of LDM software or via e-SENSE direct software (in e-SENSE applications).

11.20 Staff gauge

The "classical" staff gauge is used to read the water level in water courses.

11.11.53 e+ WATER L, 50 cm

11.11.54 e+ WATER L, 100 cm

11.11.55 e+ WATER L, 150 cm

11.11.56 e+ WATER L, 200 cm



e+ WATER L in various lengths

BENEFITS e+ WATER L

- All-in one water level logger
- Lengths up to 2 m available
- Vented so no influence of air pressures
- Smart air vent allows flooding
- Can be read on site, in-situ or at the office PC
- Ideal for canals, lakes, shallow wells



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PARTS LIST

Art.no.	Description	Qty. in set	Art.no.	Description	Qty. in set
Water level measurements (P2.20)					
	<p>Our product range includes several instruments to measure water levels, e.g.</p> <ul style="list-style-type: none"> - sounding devices with measuring tapes - sounding devices with acoustic and light signal - DIVER groundwater datalogger - e + WATER L sensors - staff gauge 				
11.01	Sounding device with measuring tape.				
11.01.01.17	Sounding device, Ø 17 mm, with eye		11.03.27	water (sensitivity 50 microS/cm to 180 milliS/cm), measuring range 150 m, reading accuracy 1 cm, with carrying frame Sounding apparatus with acoustic and light signal, electrode Ø 14 mm, plunging volume only 0.8 cm ³ , for all kinds of ground-water (sensitivity 50 microS/cm to 180 milliS/cm), measuring range 200 m, reading accuracy 1 cm, with carrying frame	
11.01.02.02	Measuring tape, glass fibre, with hook for sounding device, length 5 m		11.03.28	Sounding apparatus with acoustic and light signal, electrode Ø 14 mm, plunging volume only 0.8 cm ³ , for all kinds of ground-water (sensitivity 50 µS/cm to 180 mS/cm), measuring range 300 m, reading accuracy 1 cm, with carrying frame	
11.01.02.03	Measuring tape, glassfibre, with hook for sounding device, length 10 m		11.03.29	Sounding apparatus with Acoustic and light signal, electrode Ø 14 mm, plunging volume only 0.8 cm ³ , for all kinds of ground-water (sensitivity 50 microS/cm to 180 milliS/cm), measuring range 500 m, reading accuracy 1 cm, with carrying frame.	
11.03	Sounding devices with acoustic and light signal			For both water level and temperature measurements we have a combined apparatus:	
	<p>The instruments with a cable length up to 50 metres are supplied with hand reel. The longer ones have a carrying frame.</p>		11.03.33	Sounding apparatus with acoustic signal and temperature measurement, electrode Ø 16 mm, measuring range 50 m, reading accuracy 1 cm, temperature 0-25°C., with carrying frame	
11.03.20	Sounding apparatus with acoustic- & light signal, electrode Ø 14.0 mm, reading accuracy 1 cm, measuring range 10 m			Accessories and spare parts for sounding devices:	
11.03.21	Sounding apparatus with acoustic & light signal, electrode Ø 14 mm, plunging volume only 0.8 cm ³ , for all kinds of ground-water, sensitivity: 50 µS/cm to 180 mS/cm, measuring range 15 m, reading accuracy 1 cm		11.03.93	Carrying bag for sounding apparatus with acoustic and light signal, length 15, 30 and 50 m (11.03.21/22/23)	
11.03.22	Sounding apparatus with acoustic and light signal, electrode Ø 14 mm, plunging volume only 0.8 cm ³ , for all kinds of ground-water (sensitivity 50 microS/cm to 180 milliS/cm), measuring range 30 m, reading accuracy 1 cm		11.03.94	Carrying bag for sounding apparatus with acoustic and light signal, length 100 m, with carrying frame (11.03.25)	
11.03.23	Sounding apparatus with acoustic and light signal, electrode Ø 14 mm, plunging volume only 0.8 cm ³ , for all kinds of ground-water (sensitivity 50 µS/cm to 180 mS/cm), measuring range 50 m, reading accuracy 1 cm			For special purposes we also supply sounding apparatus with 4.8 mm. Ø probe.	
11.03.25	Sounding apparatus with acoustic and light signal, electrode Ø 14 mm, plunging volume only 0.8 cm ³ , for all kinds of ground-water (sensitivity 50 µS/cm to 180 mS/cm), measuring range 100 m, reading accuracy 1 cm, with carrying frame		11.03.18	Sounding apparatus with acoustic and light signal, specially suited for mini monitoring wells. Electrode Ø only 4.8 mm, measuring range 8 meter, distance markings on cable every 50 cm	
11.03.26	Sounding apparatus with acoustic and light signal, electrode Ø 14 mm, plunging volume only 0.8 cm ³ , for all kinds of ground-		11.08	Floating layer thickness meter with acoustic- and light signal	
			11.08.07	Floating layer thickness meter for detection of floating- and sinking layers of hydrocarbons, acoustic- and light signal, electrode Ø 16 mm, 30 m tape with mm graduation, incl. carrying bag. CSA certified for class 1	



Art.no.	Description	Qty. in set	Art.no.	Description	Qty. in set
	groups C and D locations till 50°C			and recording groundwater levels/temperatures. Range 10 m, -20 till +80°C. Memory 48000 measurements. Dim. 18x90 mm. Pressure sensor: ceramic. Housing: stainless steel 316L. Accuracy 0.05%/10 m, +0,1°C, temp. compensated 0/+40°C.	
11.11	DIVER Groundwater datalogger				
	Within the Diver family we supply (ground) water dataloggers for water level, temperature and conductivity measurements		11.11.02.04	Monitoring well datalogger type MicroDiver for measuring and recording groundwater levels/temperatures. Range 20 m, -20 till +80°C. Memory 48000 measurements. Dim. 18x90 mm. Pressure sensor: ceramic. Housing: stainless steel 316L. Accuracy 0.05%/20 m, + 0,1°C, temp. compensated 0/+40°C.	
	Temperature and Depth Dataloggers (Diver)		11.11.02.06	Monitoring well datalogger type MicroDiver for measuring and recording groundwater levels/temperatures. Range 50 m, -20 till +80°C. Memory 48000 measurements. Dim. 18x90 mm. Pressure sensor: ceramic Housing: stainless steel 316L. Accuracy 0.05%/50 m, + 0,1°C, temp. compensated 0/+40°C.	
	Here we have three different models, having each their specific advantages and specifications:		11.11.02.08	Monitoring well datalogger type MicroDiver for measuring and recording groundwater levels/temperatures. Range 100 m, -20 till +80 °C. Memory 48000 measurements Dim. 18x90 mm. Pressure sensor: ceramic Housing: stainless steel 316L. Accuracy 0.05%/100 m, + 0,1°C, temp. compensated 0/+40°C	
	- MiniDiver: low cost unit in stainless steel housing. Memory capacity: 24000 readings		11.11.03.02	Monitoring well datalogger type CeraDiver, for measuring and recording groundwater levels/temperatures. Range 10 m, -20 till +80°C. Memory 48000 measurements. Dim. 22x90 mm. Pressure sensor/housing: ceramic. Accuracy 0.05%/10 m, + 0,1°C, temp. compensated 0/+40°C.	
	- MicroDiver: smallest unit in stainless steel housing. Memory capacity: 48000 readings		11.11.03.04	Monitoring well datalogger type CeraDiver, for measuring and recording groundwater levels/temperatures. Range 20 m, -20 till +80°C. Memory 48000 measurements. Dim. 22x90 mm. Pressure sensor/housing: ceramic. Acc. 0.05%/20 m, + 0,1°C, temp. compens. 0/+40°C.	
	- CeraDiver: high quality unit in ceramic housing for hard conditions. Memory capacity: 48000 readings		11.11.03.06	Monitoring well datalogger type CeraDiver, for measuring and recording groundwater levels/temperatures. Range 50 m, -20 till +80°C. Memory 48000 measurements. Dim. 22x90 mm. Pressure sensor/housing: ceramic. Accuracy 0.05%/50 m, + 0,1°C, temperature comp. 0/+40°C.	
11.11.01.02	Monitoring well datalogger type MiniDiver for measuring and recording groundwater levels/temperatures. Range 10 m, -20 till +80°C. Memory 24000 measurements. Dim. 22x90 mm. Pressure sensor: ceramic Housing: stainless steel 316L Accuracy 0.05%/10 m, + 0,1°C, temp. compens. 0/+40°C.		11.11.03.08	Monitoring well datalogger type CeraDiver for measuring and recording groundwater levels/temperatures. Range 100 m, -20 till +80°C. Memory 48000 measurements. Dim. 22x90 mm. Pressure sensor/housing: ceramic. Accuracy 0.05%/100 m, + 0,1°C, temp. compens. 0/+40°C.	
11.11.01.04	Monitoring well datalogger type MiniDiver for measuring and recording groundwater levels/temperatures. Range 20 m, -20 till +80°C. Memory 24000 measurements. Dim. 22x90 mm. Pressure sensor: ceramic Housing: stainless steel 316L Accuracy 0.05%/20 m, + 0,1°C, temp. compens. 0/+40°C.				
11.11.01.06	Monitoring well datalogger type MiniDiver for measuring and recording groundwater levels/temperatures. Range 50 m, -20 till +80°C. Memory 24000 measurements Pressure sensor: ceramic Housing: stainless steel 316L Accuracy 0.05%/50 m, + 0,1°C, temp. compens. 0/+40°C.				
11.11.01.08	Monitoring well datalogger type MiniDiver for measuring and recording groundwater levels/temperatures. Range 100 m, -20 till +80°C. Memory 24000 measurements Dim. 22x90 mm. Pressure sensor: ceramic Housing: stainless steel 316L. Accuracy 0.05%/100 m, + 0,1°C, temp. compens. 0/+40°C.				
11.11.02.02	Monitoring well datalogger type MicroDiver for measuring				



PARTS LIST

Art.no.	Description	Qty. in set	Art.no.	Description	Qty. in set
	Pressure sensor/housing: ceramic. Accuracy 0,05%/100 m, + 0.1°C, temperature compensated 0/+40°C.			-20 till +80°C. Accuracy 0.03%/ 150 cmwc. Dim. 22x90 mm.	
	Conductivity, Temperature and Depth Dataloggers (CTD Diver)			Accessories for programming and reading the Diver dataloggers:	
11.11.58.01	CTD-DIVER for measuring and recording groundwater levels/ temperature/conductivity. Memory 16000 measurements. Conductivity 20 µS till 80 mS/cm. Temperature -10 till +40°C. Depth 10 m. Accuracy EC 1% measurement value, temperature 0.1%, depth 0.1% FS. Housing ZNO2. Warranty 3 years. The logger can be read out by means of a read-out unit, DRC-cable or through connection with a SMS-modem.		11.11.10.03	Reading unit for Diver, used to programme and read out the Diver, incl. cable with USB connection and driver software. Applicable for all Diver types and e+ sensors.	
			11.11.14	CD-ROM with Logger Data Manager (LDM) software (for Windows 2000 and XP) and USB driver soft- ware. Operating instructions inclu- ded on CD-ROM for Diver, LDM and USB driver.	
11.11.58.02	CTD-DIVER for measuring and recording groundwater levels/ temperature/conductivity. Memory for 16000 measurements. Conductivity 20 µS till 80 mS/cm. Temperature -10 till +40°C. Depth 30 m. Accuracy EC 1% measurement value, temperature 0.1%, depth 0.1% FS. Housing ZnO2. Warranty 3 years. The logger can be read out by means of a read-out unit, DRC-cable or through a connection with a SMS-modem.			For Pocket PC requirements we supply special software:	
			11.11.12.01	CD-ROM with Pocket PC software for reading and programming all Divers with Pocket PC. (PDA requirements: Windows Mobile 2002 or 2003, XScale or StrongArm Processor, USB Host CF Card or RS232 CF Card, RATOC, 64 MB RAM)	
11.11.58.03	CTD-DIVER for measuring and recording groundwater levels/ temperature/conductivity. Memory for 16000 measurements. Conductivity 20 µS till 80 mS/cm. Temperature -10 till +40°C. Depth 100 m. Accuracy EC 1% measurement value, temperature 0.1%, depth 0.1% FS. Housing ZnO2. Warranty 3 years. The logger can be read out by means of a read-out unit, DRC-cable or through connection with a SMS-modem.			Accessories for installing the Diver datalogger in the groundwater monitoring pipes and/or wells:	
			11.11.20	Cable, stainless steel, Ø 1 mm, length 50 m, to hang the DIVER on the monitoring well locks	
			11.11.21	Stainless steel wire clamps for stainless steel cable Ø 1 mm. Set of 10 pcs.	
			11.11.22	Vectran cable, Ø 1.6 mm, length 50 m. For installation of Diver in corrosive water. Fastening on monitoring well lock.	
			11.11.25	Monitoring well lock to lock monitoring wells with an inner Ø of 25 mm (total range 24-25 mm), with vandalism proof inner socket head screw, hexagonal. Also suitable for installation of the DIVER in a monitoring well. Set of 3 pieces	
11.11.34	Calibration liquid (460 ml) 1.4 mS/cm for CTD-Diver 11.11.58.01, 11.11.58.02 and 11.11.58.03			Monitoring well lock to lock monitoring wells with an inner Ø of 28 mm (total range 27-29 mm), with vandalism proof inner socket head screw, hexagonal. Also suitable for installation of the DIVER in a monitoring well. Set of 3 pieces	
11.11.35	Calibration liquid (460 ml), 5mS/cm, for CTD DIVER 11.11.58.01, 11.11.58.02 and 11.11.58.03		11.11.26	Monitoring well lock to lock monitoring wells with an inner Ø of 28 mm (total range 27-29 mm), with vandalism proof inner socket head screw, hexagonal. Also suitable for installation of the DIVER in a monitoring well. Set of 3 pieces	
11.11.36	Calibration liquid (460 ml), 12.88 mS/cm, for CTD DIVER 11.11.58.01, 11.11.58.02 and 11.11.58.03			Monitoring well lock to lock monitoring wells with an inner Ø of 36 mm (total range 35-37 mm), with vandalism proof inner socket head screw, hexagonal. Also suitable for installation of the DIVER in a monitoring well. Set of 3 pieces	
11.11.37	Calibration liquid (460 ml) 80 mS/cm for CTD-Diver 11.11.58.01, 11.11.58.02 and 11.11.58.03		11.11.27	Monitoring well lock to lock monitoring wells with an inner Ø of 36 mm (total range 35-37 mm), with vandalism proof inner socket head screw, hexagonal. Also suitable for installation of the DIVER in a monitoring well. Set of 3 pieces	
	Also required for CTD-Diver:			Monitoring well lock to lock	
	Extra Diver for measuring the atmospheric pressure (for compensation measured data).		11.11.28	Monitoring well lock to lock	
11.11.55.01	Monitoring well datalogger type Baro-Diver, for measuring the atmospheric pressure in a measuring area, to compensate for barometric pressure only. Range 150 cmwc,				



Art.no.	Description	Qty. in set	Art.no.	Description	Qty. in set
11.11.29	monitoring wells with an inner Ø of 41 mm (total range 40-41 mm), with vandalism proof inner socket head screw, hexagonal. Also suitable for installation of the DIVER in a monitoring well. Set of 3 pieces Monitoring well lock to lock monitoring wells with an inner Ø of 45 mm (total range 44-47 mm), with vandalism proof inner socket head screw, hexagonal. Also suitable for installation of the DIVER in a monitoring well. Set of 3 pieces		11.11.48.06	for connection to Diver. For connection to PC-communication cable, length 60 m. Diver Data Cable (DDC) for Mini/Micro/Cera Divers. Flexible polyethylene coaxial cable. Complete with optical interface for connection to Diver. For connection to PC-communication cable, length 80 m.	
11.11.30	Monitoring well lock to lock monitoring wells with an inner Ø of 51 mm (total range 50-53 mm), with vandalism proof inner socket head screw, hexagonal. Also suitable for installation of the DIVER in a monitoring well. Set of 3 pieces		11.11.48.07	Diver Data Cable (DDC) for Mini/Micro/Cera Divers. Flexible polyethylene coaxial cable. Complete with optical interface for connection to Diver. For connection to PC-communication cable, length 100 m.	
99.75.20	Handle with magnetic holder for socket-head screws 4 and 5 mm		11.11.48.08	Diver Data Cable (DDC) for Mini/Micro/Cera Divers. Flexible polyethylene coaxial cable. Complete with optical interface for connection to Diver. For connection to PC-communication cable, length 200 m.	
99.75.24	Hexagonal socket-head screw bit 4 mm, vandalism proof		11.11.45	Communication cable to connect DDC cable with PC, with moulded RS232 DIN connector to PC	
	Diver Data cables: to retrieve data and to program the Diver from the top of the well: (incl. accessories)		11.11.45.01	Communication cable to connect DDDC-cable with PC, with moulded USB connector to PC.	
11.11.48.00	Diver Data Cable (DDC) for Mini/Micro/Cera Divers. Flexible polyethylene coaxial cable. Complete with optical interface for connection to Diver. For connection to PC communication cable, length 1 m.		11.11.45.11	Adapter cable to connect a standard DDC-cable to an e-SENSE SMS modem. Length 4.8 m.	
11.11.48.01	Diver Data Cable (DDC) for Mini/Micro/Cera Divers. Flexible polyethylene coaxial cable. Complete with optical interface for connection to Diver. For connection to PC communication cable, length 5 m.		11.11.46.02	Stopper for installation of Diver communication cable in PVC monitoring well pipe 32x28 mm	
11.11.48.02	Diver Data Cable (DDC) for Mini/Micro/Cera Divers. Flexible polyethylene coaxial cable. Complete with optical interface for connection to Diver. For connection to PC-communication cable, length 10 m.		11.11.46.03	Stopper for installation of Diver communication cable in PVC monitoring well pipe 40x36 mm	
11.11.48.03	Diver Data Cable (DDC) for Mini/Micro/Cera Divers. Flexible polyethylene coaxial cable. Complete with optical interface for connection to Diver. For connection to PC-communication cable, length 15 m.		11.11.46.10	Stopper for installation of Diver communication cable in PE monitoring well pipe 32x25 mm	
11.11.48.04	Diver Data Cable (DDC) for Mini/Micro/Cera Divers. Flexible polyethylene coaxial cable. Complete with optical interface for connection to Diver. For connection to PC-communication cable, length 30 m.		11.11.46.11	Stopper for installation of Diver communication cable in PE monitoring well pipe 50x41 mm	
11.11.48.05	Diver Data Cable (DDC) for Mini/Micro/Cera Divers. Flexible polyethylene coaxial cable. Complete with optical interface			General accessories for Diver:	
			11.11.95	Cap with wire eye, stainless steel, for Diver	
				Note: Divers can also be used in our e-SENSE data transmission systems (see P4.32)	
				e+ WATER L The e+ WATER L sensor is supplied in four different lengths:	
			11.41.53	e+ WATER L-50 set, consisting of e+ WATER L-50 sensor/logger (art. no. 11.41.53.01) and battery set (11.41.90.01). It is recommended to use the standard mounting system (11.41.95.00-11.41.95.03). Note: it is not necessary when the e+ WATER L is installed	



PARTS LIST

Art.no.	Description	Qty. in set	Art.no.	Description	Qty. in set
11.41.54	<p>in a monitoring well pipe. e+ WATER L-100 set, consisting of e+ WATER L-100 sensor/logger (art. no. 11.41.54.01) and battery set (art. no. 11.41.90.01). It is recommended to use the standard mounting system (11.41.95.00 - 11.41.95.03). Note: this is not necessary when the e+ WATER L is installed in a monitoring well pipe.</p>		11.41.95.01	Mounting system (stainless steel) for installation and protection of the 11.41.54.01 (e+ WATER L-100), incl. mounting material and vandalism proof bolts for installation of the logger.	
11.41.55	<p>e+ WATER L-150 set, consisting of e+ WATER L-150 sensor/logger (art. no. 11.41.55.01) and battery set (art. no. 11.41.90.01). It is recommended to use the standard mounting system (11.41.95.00-11.41.95.03). Note: This is not necessary when the e+ WATER L is installed in a monitoring well pipe.</p>		11.41.95.02	Mounting system (stainless steel) for installation and protection of the 11.41.55.01 (e+ WATER L-150), incl. mounting material and vandalism proof bolts for installation of the logger.	
11.41.56	<p>e+ WATER L-200 set, consisting of e+ WATER L-200 sensor/logger (art. no. 11.41.56.01) and battery set (art. no. 11.41.90.01) It is recommended to use the standard mounting system (11.41.95.00-11.41.95.03). Note: this is not necessary when the e+ WATER L is installed in a monitoring well pipe.</p> <p>Reading units for programming the sensors and reading out data (RS 232 and USB)</p>		11.41.95.03	Mounting system (stainless steel) for installation and protection of the 11.41.56.01 (e+ WATER L-200), incl. mounting material and vandalism proof bolts for installation of the logger.	
11.11.10	Reading unit for Diver, to programme and read out the Diver, incl. cable with RS232 connection and driver software. Only applicable for Diver/CTD-Diver and e+ sensors.		11.20	Staff gauge	
11.11.10.01	Reading unit for Diver, to programme and read out the Diver, incl. cable with USB connection and driver software. Only applicable for Diver/CTD-Diver and e+ sensors.		11.20.01	Staff gauge, dim. 7.5x100 cm, with cm-divisions (0 - 100 cm, ascending), synthetic (perspex) design	
11.11.14	CD-ROM with Logger Data Manager (LDM) software (for Windows 2000 and XP) and USB driver software. Operating instructions included on CD-ROM for Diver, LDM and USB driver.		11.20.03	Staff gauge, enamelled steelplate, dim. 13x100 cm, with cm-divisions (0 - 100 cm ascending), flat design	
11.31.90	<p>e+ infrared communicator to programm and read out the e+ sensor from a distance (1 to 2 m)</p> <p>Mounting set to install the sensors in the field</p>				
11.41.95.00	Mounting system (stainless steel) for installation and protection of the 11.41.53.01 (e+ WATER L-50), incl. mounting material and vandalism proof bolts for installation of the logger.				