

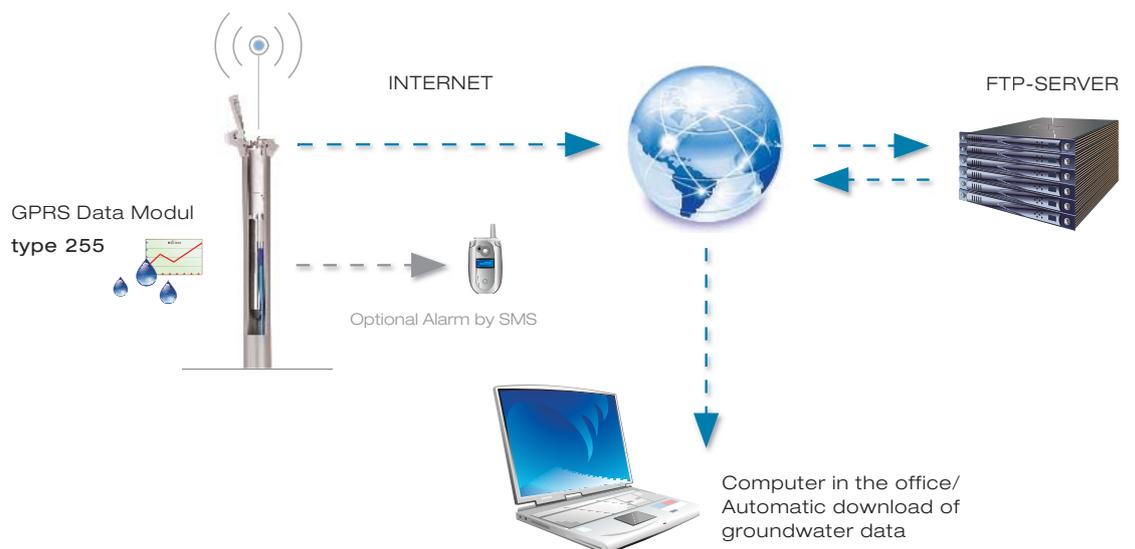
GPRS Data Module type 255

Remote monitoring system with automatic transmission of measured data direct to your workstation

Using the GPRS data module will very quickly amortise your investment for every ground water measuring station which has to be monitored automatically, whether by a conventional datalogger or an existing remote monitoring system.

■ PARTICULAR ADVANTAGES

- Direct installation in boreholes from 2"
- Control sounding probes without reconstruction are feasible from 2"
- No synchronisation of actual and standby times
- No installation of modems or ISDN cards
- No interruption of work at the workstation by prolonged data transmission
- Cost-efficient data transmission per GPRS technology
- Connection of up to two HT measuring probes (water level, temperature, conductivity/salinity, pH)
- Non-volatile Flash-storage for up to approx. 190,000 records
- Simultaneous download of data from all groundwater levels in a few seconds
- Compact construction of high-grade stainless steel with integrated aerial
- Simple commissioning





GPRS Data Modul type 255

■ DESCRIPTION

The GPRS data module type 255 automatically sends the recorded readings after predetermined intervals to an FTP internet server. The data is continuously extrapolated on the server. Transmission of the data by means of GPRS technology requires no standby times and no synchronisation with the system clock. This modern technology allows several data modules type 255 to access the internet server at the same time. Overloaded data transmission lines and modems belong to the past. The computer on your desk can be set up so that the data is transmitted automatically from the internet server, thereby being available to you in selected directories at any time for further processing.

■ CONNECTABLE PROBES

Type V550W - Pressure probe for water level and temperature measurements:

- Digital transmission to the process transmitter
- Made of stainless steel 316 Ti
- Ø 24 mm, length 120 mm
- Selectable measurement range up to 300 m water column
- Compensation of the barometric fluctuation with a vented polyurethane cable
- Temperature compensated area of the probe is between 0 – 50 °C
- Accuracy: 0,1 % FS

Optional temperature measurement:

- Measurement range: 0 - 50 °C
- Accuracy: 0,1 °C

Type V550L - Probe for water level, temperature, conductivity and salinity:

- Conductivity sensor is integrated in the probe housing
- Ø 30 mm, length 175 mm
- 4- electrode principle
- The technical data for the measurement of water level and temperature are the same as above
- Measuring range 0 - 200 mS/cm incl. automatic switch of measurement ranges
- Accuracy: 1 % of current value
- Compensation of the conductivity value at a reference temperature of 25 °C can be configured by the user
- The conductivity/salinity sensor does not need any maintenance and there is no recalibration necessary

Type V550P - Probe for PH und temperature:

- Dimensions: Ø 29,5 mm, length 250 mm
- Measuring range – pH: 2-14 pH
- Measuring range – temperature: 0 to 50 °C
- Accuracy – pH: 0,02 pH
- Accuracy – temperature: 0,1 °C
- Integrated electronics with 16 bit AD transducer
- Max. covering of the probe 100 mWS

■ TECHNICAL DATA Data Modul type 255

Dimensions	Ø 49 mm, length 380 mm
Housing material	Stainless steel 304 Ti
Transmitter frequency	Dualband 900 / 1800 MHz
Power supply	3 round cells, sufficient for an autarkic measuring and teleprocessing mode of 2 years
Shortest measuring rate	1 Minute
Sending rate	Daily with a battery life of 2 years
Interface	RS 232
Alarm management	Directly to the PC, further eMail or SMS possible
Transmission method	GSM and/or GPRS selectable (FTP server or PC), SMS
System clock	Automatic synchronisation by atomic clock
Data storage	Non-volatile Flash storage 1.5 MB for up to 190,000 records
Environmental conditions	
Operational temperature	-20 °C to +60 °C
Storage temperature	-40 °C to +85 °C
Protection class	IP 68, permanently safe against flooding until 3m water column

Changes in performance features and technical data are permitted.



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