

# PD-5

## GPRS Groundwater Data Logger



The GPRS data logger PD-5 is a compact device for all groundwater wells that have to be monitored by continuous measurements of water level and water quality.

The PD-5 automatically transmits the recorded level and quality data to a data server in a selectable interval. By using GPRS technology, the PD-5 does neither require standby-time nor synchronization of the integrated clock. With this technology many PD-5 data loggers can access the server at the same time for data upload.

Additionally, the device can be equipped with an alarm management system which, when user-defined limits are reached, sends an SMS message or e-mail, or transmits a notification to the data server for further processing.

### Versions

Art	Version
19565	PD-5 Level data logger with 2G data transmission
21075	PD-5 Level data logger with 3G data transmission

### Scope of delivery

Qty	Name
1	PD-5 GPRS data logger
1	Signal cable
1	USB-stick including PDCommander software and manual

### Accessories

Art	Accessories
19566	Multiparameter probe for PD-5 - water level, temperature, conductivity
19568	Sensor turbidity only for PD-5
19632	Water pressure probe for PD-5, (Temperature

Art	Accessories
	probe 19633 optional)
19633	Temperature probe for PD-5 integrated in probe
19714	Temperature probe for PD-5
20075	PH sonde for PD-5
19644	PD-5 - rod antenna $\varnothing$ 15x85mm (single) including 2m antenna cable incl waterproof connector
19645	PD-5 - antenna round $\varnothing$ 76mm (Single) for mounting outside the switch cabinet including connectors and antenna cable 2m
19634	Connectors for external antenna for PD-5
19650	PD-5 - cap 5" cast aluminum with plastic insert for GPRS 6-point closure
19668	PD-5 - antenna round $\varnothing$ 76mm (Single) for mounting outside the switch cabinet including connectors and antenna cable 6m
19810	Intermediate ring 3" to mount the PD-5 data logger in a 3" cap / center bore
19811	Intermediate ring 4" to mount the PD-5 data logger in a 4" cap / center bore
19812	Intermediate ring 4,5" to mount the PD-5 data logger in a 4,5" cap / center bore
19643	Intermediate ring 5" to mount the PD-5 data logger in a 5" cap / center bore
19813	Intermediate ring 6" to mount the PD-5 data logger in a 6" cap / center bore
19717	PD-5 - cap 2" cast aluminum with plastic insert for GPRS 6-point closure
19814	PD-5 - cap 3" cast aluminum with plastic insert for GPRS 6-point closure
19815	PD-5 - cap 4" cast aluminum with plastic insert for GPRS 6-point closure
19816	PD-5 - cap 4,5" cast aluminum with plastic insert for GPRS 6-point closure

Art	Accessories
19817	PD-5 - cap 6" cast aluminum with plastic insert for GPRS 6-point closure
20181	Readout cable for MRL and PD-x
19569	cable with inside air hose for PD-3 or PD-5
19570	cable without inside air hose for PD-5
19678	Connector and plug for cable with pressure-equalizing for PD-3 oder PD-5
19567	PD-5 - another input channel RS485
19657	PD-5 alarm management
19781	PD-3,5 - Resolution in mm only up to 20m water column
19571	Software PC Version for PD-3 and PD-5

## Specifications

Physical and environmental	
Power supply	3 alkaline batteries, size C; sufficient for 2 years with daily data transmission (lithium batteries, size C; sufficient for approx. 5 years with daily data transmission)
Interface	RS-232
Sensor interface	1 x RS-485 Modbus (optionally 2x RS-485 Modbus)
Measurement interval	1 second to 99 days
Protection rating	IP 68
Operating temperature	-20°C to +65°C (optionally to -35 °C)
Housing material	Stainless steel
Size $\varnothing$ x length	49 x 420 mm (including antenna)

Data transmission	
Cellular network	2G (optionally 3G)
Transmission frequency	900/1800 MHz (optionally 850/1900 MHz)
Memory	4 MB flash for up to 190'000 measurements
Data transmission	FTP/FTPS, SMS, e-mail