



The GDT-S Prime connects to all Divers allowing users to remotely transmit sensor data. It also enables the user to access the data either through the MGS Web Portal or via email. It is also possible to amend logger settings remotely to save on costly site visits. The modem has an external antenna connection and is powered by standard alkaline batteries with optional lithium battery pack for intensive use.

Applications

- Automatic groundwater monitoring

Features

- Internal barometric and temperature sensor
- Secure data transmission
- Data accessed on MGS Web Portal or email
- Simple to link to your own web environment through API
- Powered with standard alkaline batteries
- Lithium battery pack for intensive use (optional)
- Real-time alarms possible for flood control

Mechanical Specifications

Housing dimensions	Ø 48 mm, , length 340 mm, top cap Ø 60 mm
Weight (inc battery)	Approx. 950 g
Housing material	Aluminium
Top cap	Synthetic, POM (Polyacetal)

Electrical Specifications

Battery pack (internal)	2 x D 1.5 V type / lifetime depends on sensor type
Lithium battery (for intensive use)	3.6 V/35 Ah, Tadiran Lithium SL-2790S, Size: DD
Modem clock accuracy	better than 1 minute/day

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Communications	
Message mode	Web portal, e-mail, SMS alarm
Data encryption	AES
GSM	GPRS (2.5G) UMTS (3G)
SIM card	Multinetwork SIM* M2M* replaceable
Antenna connector (external)	SMA connector
Sensor port	5-pin male connector (M12)
GNSS	Accuracy <2.5m CEP (open field)

*Please contact MGS for advice

Integrated barometer and temperature sensor	
Barometer measuring range	10 ... 1200 mbar *
Resolution	0.01 mbar
Accuracy barometer	± 2 mbar (at 300 ... 1100 mbar, 0 ... 50 °C)
Temperature measuring range	-40 ... +85 °C
Resolution	0.01 °C
Accuracy temperature	± 0.8 °C (at 25 °C) ± 2.0 °C (0 ... 50 °C)

*1 mbar is approximately 1 cmH₂O

Antenna	
GPRS (2.5G)	Quad band type (850, 900, 1800, 1900 MHz)
UMTS (3G)	Five band (800, 850, 1900, 2100 MHz)
Connector	SMA Bulkhead
GNSS	GPS and GLONASS

Sensor ports	
Number of sensor ports	2
Port 1	Diver, e+ logger
Port 2	AP probe, SDI-12, 0-5 V, 0-20mA, 4-20mA, single ended or differential

Ambient Conditions	
Temperature range	-20 - + 60 °C
Ingression protection (enclosure)	IP68