



Remote monitoring  
of ground water data  
OTT ITC – remote data transmission  
via GSM/SMS/GPRS

## OTT ITC

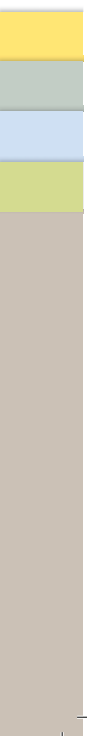
GSM/SMS/GPRS Data Transmission Unit  
designed for Ground Water Applications

The intelligent top cap OTT ITC, designed to equip the OTT ground water data loggers Orpheus Mini, OTT CTD and OTT Thalimedes, offers a high performance GSM/SMS/GPRS data transmission unit.

The compact and simple design of the ITC guarantees an easy installation on wells (2" ... 4"). No tools are required to change the battery or to insert the SIM card.

A clever power supply concept leaves no questions unanswered: Easy to change lithium battery (sufficient to power the ITC for up to 2 years operation) or external solar unit – depending on the requirements and conditions at the measurement site an optimised power supply solution can be employed.

Quantitative  
Hydrology



# Automatic access to ground water data with OTT ITC



## Various communication solutions

The intelligent top cap ITC provides optimised communication solutions for groundwater monitoring networks:

- Data on request at dedicated time slots from the central station
- SMS active transfer, automatic self timed data transfer to PC or data centre using SMS data packages
- SMS alarm messages to mobile phone, via fax or e-mail. SMS alarm triggered through observation of pre-set thresholds
- GPRS data transmission features supported with OTT Orpheus Mini/CTD

## Features & Benefits

- Low power consumption: Lithium battery supply for up to 2 years operation (based on 1 SMS data transmission per day)
- For mounting on well pipes with or without thread (2" ... 4")
- Change of Lithium battery or insertion of the SIM card is possible without tools
- Integrated omni-directional flat antenna, for best reception
- Wireless infrared (IrDA) data transmission between data logger and OTT ITC – no cables to interfere with a manual control measurement done by a contact gauge



## Technical data

**GSM net – supported frequency**  
- GSM 900 / 1800 Mhz (Dual band)  
- GSM 850 / 1900 Mhz (Dual band, USA version)

**SMS/GPRS active data transfer**  
Supported

**Data download direct connection**  
Supported

**Supported data loggers**  
OTT Orpheus Mini, OTT CTD,  
OTT Thalimedes

**Interface**  
Infrared (IrDA) and RS-232

**Power supply internal**  
Easily changeable lithium battery type D-UM1 (3.6 V/13 Ah)  
> 2 years operation at 1 SMS per day  
> 1 year operation at 15 min timeslot per day

**Power supply external**  
Optional external power supply 12 V, battery or solar power supply.  
The standard solar power supply package (12 W, 6.5 Ah) provides the power needed for continuous operation of the modem.

**Housing**  
- Robust aluminium housing, weather proof  
- Antenna protection cover PUR RIM, UV resistant coat

**Weight**  
Approx. 3 kg  
**Dimensions** Ø x H  
165 mm x 190 mm

**Operating temperature**  
-20 ... +60 °C

**Relative humidity**  
0 ... 95 % (not condensating)

**Type of protection**  
IP 67 (immersion depth max. 2 m, duration of immersion max. 24 h)

**Installation options ITC**  
On 2", 3" and 4" wells,  
no thread necessary for installation



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