

## blueberry *GSM Module*



### Description

The **blueberry GSM Module** is a remote data transmission module with **RS232** serial interface. It provides GSM mode for asynchronous data transmission and for peer-to-peer dial-in connection as well as GPRS mode for integration of the **NDL485** data logger into the Internet.

### Technical Data

#### Data Transmission Modes

Transmission frequencies..... 900 / 1.800 / 850 / 1.900 MHz

#### GSM Modes

Transmission modes ..... asynchronous data transmission at 9.600 baud  
ppp dial-in connection

#### GPRS Modes

Transmission modes ..... TCP/IP Internet connection via GPRS

#### Data Interface

Serial interface..... RS232

Baud rate..... 38.400 baud for **NDL485**  
user settable from 1.200 to 115.000 baud

#### Power Supply

Supply voltage..... 8..30 VDC

Current consumption ..... approx. 15 mA in GSM mode  
approx. 25 mA average in GPRS mode

#### Casing

Type..... top-hatrail casing

Material ..... anodized aluminium

## Electrical Connection

Cable ..... 5-pin connector, M12x1

### Wiring

Pin 2 ..... (+) power supply

Pin 3 ..... (-) power supply

## LED

The LED close to the RS232 connector indicates the operation mode of the modem:

LED always off ..... no power supply, modem damaged or data logger went to reboot

LED flashing fast (once per second) ..... the GSM Module tries to register into the GSM network

LED flashing slowly (once every 3 seconds) ..... the GSM Module is registered in GSM mode

LED double-flashing slowly (twice every 4 seconds) ..... the GSM Module is registered in GPRS mode

LED flickering ..... the GSM Module transmits data in GSM or in GPRS mode

## Environmental Conditions

Operating temperature..... -25..+70°C

Relative humidity..... 0..100%, non-condensing

## Compliance

The blueberry GSM Module meets the European CE standard.



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