



The **G**lobal **D**ata **T**ransmitter **M**ultiple (GDT-M) modem is designed to communicate with sensors (e+ loggers and/or Divers and/or SDI-12 sensors) in the field and transmit sensor data in a secure way to our customers anywhere in the world. The modem has 6 sensor ports, allowing it to connect to up to 6 sensors.

The modem comes complete with barometer and mounting brackets.

Note: SIM card subscription (11.62.81/82) and battery-pack are not included.

### Key Features

- Always a complete data set
- Smart while efficient
- 6 ports for sensors
- Secure data transmission
- 3GGPRS, UMTS or SDI-12 version
- Internal barometric and temperature sensor
- Part of the Eijkelkamp Smart Sensoring concept

### Applications

- Telemetry
- Datalogging

When installed correctly, the environmental protection is IP67. Warranty is 2 years.

### Set contains

Depending on your preferred technology for data transfer, the modem is available in the following versions:

- GDT-Multiple GPRS. Telemetry via e-mail
- GDT-Multiple UMTS. Telemetry via UMTS
- GDT-Multiple GPRS SDI-12. Telemetry via e-mail



| Mechanical Specifications                                         |                                                                                       |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Specifications                                                    | Dimensions                                                                            |
| Enclosure (LxWxH)                                                 | 160 x 160 x 60 mm                                                                     |
| Enclosure with M12-sensor connector and antenna connector (LxWxH) | Depending on connector type 250 x 160 x 110, 140 or 190 mm                            |
| Specifications                                                    | Weight                                                                                |
| Global Data Transmitter (incl. battery pack)                      | approx. 1200 g                                                                        |
| Specifications                                                    | Materials                                                                             |
| Enclosure                                                         | ABS                                                                                   |
| Mounting brackets                                                 | Stainless steel                                                                       |
| Electrical Specifications                                         |                                                                                       |
| Item                                                              | Specification                                                                         |
| Battery pack (internal)                                           | 7.2 V                                                                                 |
| Power supply (external)                                           | DC 5.5 - 18 V                                                                         |
| Lifetime of the battery pack                                      | > 3 years (at a 1-hour interval)                                                      |
| Maximum rated power usage                                         | 4.2 W (800 mA)                                                                        |
| Modem time accuracy                                               | better than 1 minute/day                                                              |
| Connections                                                       |                                                                                       |
| Messaging                                                         | Specification                                                                         |
| Message mode                                                      | web portal, e-mail, SMS alarm, other                                                  |
| Data encryption                                                   | AES                                                                                   |
| GSM                                                               | Quad band type (850, 900, 1800, 1900 MHz)                                             |
| LTE Cat-M1                                                        | LTE frequency bands (B1, B2, B3, B4, B8, B12, B13, B20, B28)                          |
| SIM card                                                          | Vodafone NL M2M *                                                                     |
| Antenna connector                                                 | SMB connector                                                                         |
| Sensor port                                                       | 4-pin male connector (with possibility to connect a 5-pole contra connector), A-coded |
| External power connector                                          | 4-pin female connector, A-coded                                                       |
| USB port **                                                       | mini-USB buccaneer type B receptacle                                                  |

\*SIM card exchangeable by the user. The functionality of SIM cards other than Vodafone M2M is guaranteed only after the functionality tests are fulfilled by Royal Eijkelkamp. Therefore, it is advised to use tested SIM cards only

\*\*For service purposes only



| Integrated barometer sensor        | Specification                              |
|------------------------------------|--------------------------------------------|
| 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 cmH2 O |                                            |

| Sensor ports                | Specification                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------|
| Number of sensor ports      | 6                                                                                   |
| Port 1 - 6                  | sensor (e+ logger or Diver) via sensor cable                                        |
| In case of the GDT-M SDI-12 | Port 1-4 SDI-12 sensors via sensor cable; Port 5-6 e+ and/or Diver via sensor cable |

| Ambient conditions                               |                       |
|--------------------------------------------------|-----------------------|
| Item                                             | Specification         |
| Temperature                                      | -20 ... +50 °C        |
| Ingression protection (enclosure)UMTS (optional) | IP67 (30 min.@1mH2 O) |
| Max. operation height                            | 2000 m                |

| Antenna *                                      | Specification                                                |
|------------------------------------------------|--------------------------------------------------------------|
| GSM                                            | Quad band type (850, 900, 1800, 1900 MHz)                    |
| LTE                                            | LTE frequency bands (B1, B2, B3, B4, B8, B12, B13, B20, B28) |
| Connector                                      | Bulgin buccaneer SMB (RG-174 coaxial cable)                  |
| Ingress Protection                             | IP67 or better                                               |
| * Other antenna types are available on request |                                                              |

| Certifications |                                        |
|----------------|----------------------------------------|
| Item           | Specification                          |
| CE             | CE compliant                           |
| EMC / ESD      | EN 61000-6-2:2005 / EN 61000-6-4: 2005 |

