

## ORTOMAT-MTC

MIKC-IR-4G (multi transmitter correlation)

### Technical Datasheet

#### Data Logger

|                                    |                                                                                                                                                                                                                                                                                                              |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight:                            | 11.65 oz (0.33 kg)                                                                                                                                                                                                                                                                                           |
| Dimensions:                        | ø 1.71 × 4.85 inches (43.4 × 123 mm) without antenna                                                                                                                                                                                                                                                         |
| Housing:                           | Stainless steel                                                                                                                                                                                                                                                                                              |
| Protection class:                  | IP 68                                                                                                                                                                                                                                                                                                        |
| Temperature range:                 | −4° to 140° F (−20° to 60°C)                                                                                                                                                                                                                                                                                 |
| Power supply:                      | 4 × 1.5V Energizer Ultimate Lithium L91 (AA lithium primary cells; exchangeable)                                                                                                                                                                                                                             |
| Battery lifetime:                  | 4 years (depending on configuration)                                                                                                                                                                                                                                                                         |
| Radio technology:                  |                                                                                                                                                                                                                                                                                                              |
| 4G version<br>(EMEA & Others)      | 4G (LTE Cat 1) 6-band (B1 / B3 / B7 / B8 / B20 / B28A)<br>3G (UMTS / HSPA+) 2-band (B1 / B8)<br>2G (GPRS / EDGE) 2-band (900 / 1800MHz)                                                                                                                                                                      |
| 4G version<br>(North America)      | 4G (LTE Cat 1) 5-band (B2 / B4 / B5 / B12 / B13)<br>3G (UMTS / HSPA+) 3-band (B2 / B4 / B5)                                                                                                                                                                                                                  |
| LTE-M / NB-IoT version<br>(Global) | LTE-M (LTE Cat M1) 17-band (B1 / B2 / B3 / B4 / B5 / B8 / B12 / B13 / B18 / B19 / B20 / B25 / B26 / B27 / B28 / B66 / B85)<br>NB-IoT (LTE Cat NB2) 16-band (B1 / B2 / B3 / B4 / B5 / B8 / B12 / B13 / B18 / B19 / B20 / B25 / B28 / B66 / B71 / B85)<br>2G (GSM / EDGE) 4-band (850 / 900 / 1800 / 1900 MHz) |
| SIM-Card format:                   | Micro-SIM 3FF (SIM-Card-Version only)                                                                                                                                                                                                                                                                        |
| Antenna connector:                 | SMAf for 2G-/ 3G-/ 4G-antenna                                                                                                                                                                                                                                                                                |
| Data reading:                      | Data logger -> Mobile network -> Server -> HYDROPORT                                                                                                                                                                                                                                                         |
| Data memory:                       | Last 2450 measuring points (ring buffer) and 56s audio recording with 8Bit resolution (standard setting) or 28s audio recording with 12Bit resolution                                                                                                                                                        |
| Parameter setting:                 | PC application via IrDA-Interface or remote OTA (Over-The-Air)                                                                                                                                                                                                                                               |
| Data transfer rate:                | IrDA-Interface (19200 Baud)                                                                                                                                                                                                                                                                                  |
| Leak detection:                    | Noise level measurement, noise curve analysis (permanent), correlation                                                                                                                                                                                                                                       |

#### Sensor

|                    |                                                    |
|--------------------|----------------------------------------------------|
| Sensor type:       | vonRoll hydro VIBROPHON Logger                     |
| Sensor technology: | vonRoll hydro piezo technology for noise detection |
| Sensor contacting: | Magnet ø 1 inch (25 mm) / NdFeB / F = 160 N        |

