



Read the following safety precautions carefully before using the appliance, and keep it in mind during use! These information apply to the dataloggers U0110M, U0121M, U0141M, U0141TM, U0843M, U3120M, U3121M, U3631M, U4440M, U5841M, U6841M, U7844M and U8410M.

Installation, commissioning and maintenance must only be carried out by a qualified person in accordance with applicable regulations and standards.

- **Legislative conditions.** This datalogger contains a radio transmitter working in GSM frequency ranges and using power values that are shown in its Technical parameters. These ranges and power values are used in the countries of the European Union. Before the first setting the device in operation make sure that you are allowed to operate the device if you reside in a locality outside the EU.
- **Electromagnetic interference.** Do not use the device in an area where the usage of mobile phones is limited, e. g. in the vicinity of sensitive medical apparatus, on board a plane or in localities where explosive materials are used.
- **Operating and storage conditions.** Observe the recommended operating and storage condition as quoted in the Technical parameters. This datalogger makes use of an internal Li-ion rechargeable battery. Be particular about the device's not being exposed to temperatures higher than 60°C. Do not expose the device to direct radiation of heat sources and sun. To comply with RF exposure requirements, a minimum separation distance of 20 cm must be maintained between the user's body and the device, including the antenna.
- **Fire and explosion hazard.** It is not allowed to use this datalogger within hazardous areas, especially those endangered by a potential explosion of combustible gases, vapours or dust.
- **Device cover.** Do not operate the datalogger without the cover. After inserting the SIM card check the integrity of the sealing. Screw the device together by using the original screws. Proceed always exactly according to instructions that are given later in this User's guide.
- **Aggressive surroundings.** Do not expose this device to any kind of aggressive surroundings, to chemicals or mechanical shocks. Use soft tissue for cleaning. Do not apply solvents or similar aggressive agents.
- **Battery damage.** Should the battery casing get damaged or should the whole device get destroyed, carry it outside the fire, high temperature or water affected area to a safe fire-protected place. Protect yourself and the environment against escaping gases and against being soiled with the battery electrolyte.
- **Failures and servicing.** Do not try to repair the device yourself. Any repairs including battery exchange may be carried out by suitably instructed service personnel only. If the device shows signs of unusual behaviour, screw off the rear cover to disconnect the battery connector. Avoid the removed battery contacting any metallic parts. Contact the distributor you have bought the device from.
- **Accumulator charging.** Use the charger that has been recommended to charge the accumulator. During the charging procedure the device has to be located in an indoor room with a relative humidity (RH) up to 85%. The charging will proceed at an indoor temperature ranging between 0°C and +40°C.
- **Protection against water and dust.** The device will be protected against water and dust only when all connectors are duly tightened and the USB connector is provided with a closing cap. The input connectors that are not used have also to be provided with closing caps.
- **Serviceability.** This device makes use of the wireless communication and the GSM network. For this reason the connection (SMS, GPRS, etc.) cannot be guaranteed at all times and under any circumstances. Do not rely merely on wireless equipment if crucial communications have to be realized (rescue systems, safety systems). Bear in mind that redundancy is indispensable for systems featuring high functional reliability. See e.g. IEC 61508 for more information.
- **Recommended accessories.** Use only accessories that are recommended by the producer

#### Technical parameters – radio:

**GSM modem:** Quad-band 850/900/1800/1900MHz, Compliant to GSM Phase2/2+, Class 4 (2W @ 850/900MHz), Class 1 (1W @ 1800/1900MHz), GPRS Mobile Station Class B

**Antenna Input:** Connector type SMA-female, impedance 50 Ω, gain of the antenna 3 dBi max., VSWR of the antenna < 1:2

**Antenna:** Model AO-AGSM-SMV, gain 2 dBi, VSWR < 1:1.8

**EU Declaration of Conformity:** Hereby, COMET SYSTEM, s.r.o. declares, that the datalogger UxxxxM is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address <https://www.cometsystem.com/declaration-conformity/ae-lgr-uxxxxm.pdf>

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