COMET UxxxxG IoT Wireless Temperature and Relative Humidity Datalogger with 2G Modem Instructions

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Contents

SAFETY INFORMATION

⚠ Read the following safety instructions carefully before using the device and keep it in mind during use! Apply this information to the dataloggers U0110G, U0121G, U0141G, U0141TG, U0246G, U0843G, U3120G, U3121G, U3631G, U3832G, U4440G, U5841G, U6841G, U7844G and U8410G. 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 or LTE 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.
- **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 in the User’s guide manual.
- **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 conductive parts. Contact the distributor you have bought the device from.
- **Battery charging**. Use the charger that has been recommended to charge the battery. 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 via the mobile network. For this reason, the connection (SMS, data, 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

RF parameters:

Category	RF output power	Frequency range (MHz)	Modulation .
GSM900	33 dBm	890 ~ 915	GMSK, 8-PSK
DCS1800	30 dBm	1710 ~ 1785	GMSK, 8-PSK
LTE Band 1	23 dBm	1920 ~ 1980	QPSK. 16QAM
LTE Band 3	23 dBm	1710 ~ 1785	QPSK. 16QAM
LTE Band 7	23 dBm	2500 ~ 2570	QPSK. 16QAM
LTE Band 8	23 dBm	880 ~ 915	QPSK. 16QAM
LTE Band 20	23 dBm	832 ~ 862	QPSK. 16QAM

Antenna Input: Connector type SMA-female, impedance 50 Ω, gain of the antenna 3 dBi max., antenna VSWR < 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 UxxxxG is in compliance with Directive 2014/53/EU. The full text of the EU declarationof conformity is available at the following internet address www.cometsystem.com.

Address of the manufacturer

COMET SYSTEM, s.r.o.
CZECH REPUBLIC

Documents / Resources

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References

- User Manual