Manuals+ — User Manuals Simplified.

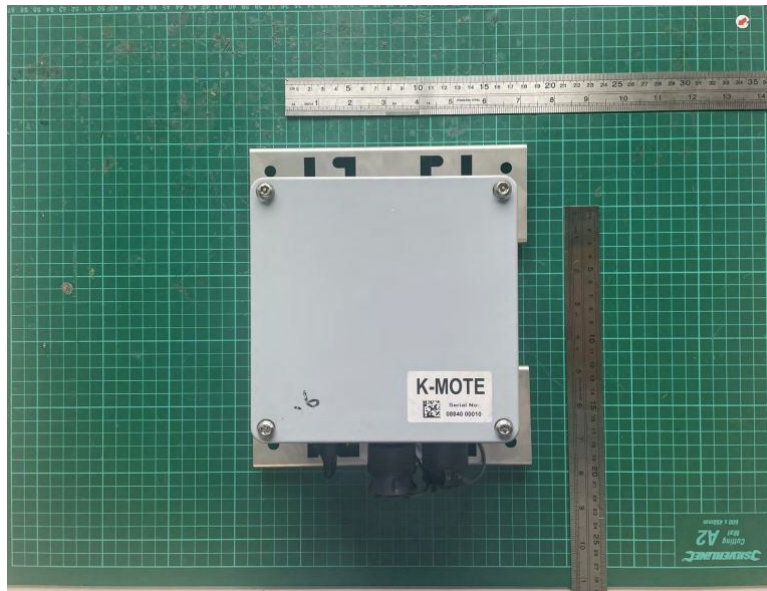# KRUCIAL K-Mote LoRaWAN Data Logger Instruction Manual

Contents

KRUCIAL K-Mote LoRaWAN Data Logger

Product Information

- **Product Name:** K-Mote
- **Model Number:** KM3-PDCT-0078
- **Description:** LoRaWAN Data Logger
- **User Manual Version:** 1.1

The K-Mote is a device that powers wired sensors and transmits the data received via LoRaWAN. It is designed to be used with a K-Cell.

K-Mote Overview
The K-Mote powers wired sensors and transmits the data received via LoRaWAN.

Installation
Warning: This equipment must only be installed by an instructed and approved installer. Contact KRUCIAL for approved installer details.

Safety Information

- Component: KMote, power cable
- Hazard: 110-240VAC mains electricity
- Mounting brackets, jubilee clips, wall fasteners: Metal edges could cause lacerations or irritation to hands.
- Suggested Mitigation: Device/cable not to be opened/disassembled. Isolate power lead from the source before any work. When installing, tough protective gloves should be worn.
- The K-Mote must be installed with connectors/interfaces facing down.
- Mounting Options: Wall mount, Pole mount

Connecting to an AC Power Supply
The equipment must only be operated with a protective earth connection. In the permanent electrical wiring to the mains socket, a 1 Amp-rated energy-isolating device, such as a fuse or circuit breaker capable of providing complete disconnection must be provided in both the live and neutral phases.

Interfaces

Interface	Position
1	ON/OFF Switch Status
2	Function/Connection ON/OFF switch
3	Sensor cable
4	Status LED
5	Antenna Power cable

Operation

ON/OFF Switch

- Status: Power OFF
- Function/Connection: ON/OFF switch
- Sensor cable: Status LED
- Antenna Power cable: Power ON

Status LED

- Solid LED: Device State – Switch on; Self-test
- Single-flash, every 20s: Normal operation
- Double-flash, every 20s: Battery low
- Triple-flash, every 20s: Failed sensor read; failed LoRa

  transmission

Warranty

Warranty information can be found in your contract with Krucial. On return of a faulty K-Mote, if it is determined to have been opened or modified, replacement costs may be charged to the installer/customer.

Support
Visit: www.krucial.com/support

Contact: support@krucial.com

Regulatory Information

FCC
Changes or modifications to the device could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

ISED
Only antennas supplied by the manufacturer for use with this device must be used. Contact the manufacturer to obtain Canadian information on RF exposure and compliance. This device contains license-exempt

transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.
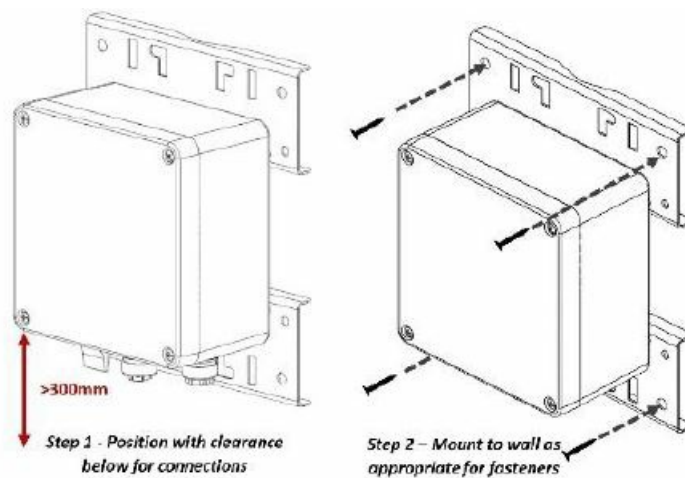
K-Mote Overview

The K-Mote powers wired sensors and transmits the data received via LoRaWAN. To use the K-Mote with a K-Cell its DevEUI and AppKey must be added via the controlling application. If using a KRUCIAL application, instructions can be found at:
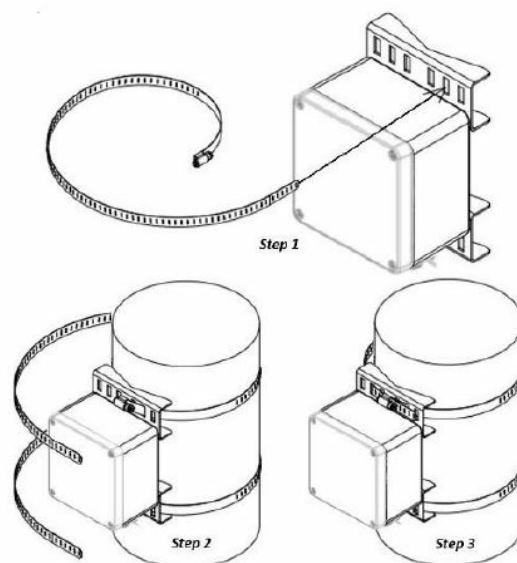**Krucial CONNECT: https://connect.krucial.cloud**
Krucial Connected Seafarms: https://aquatics.krucial.cloud

Installation

Step 1 - Position with clearance below for connections

Step 2 – Mount to wall as appropriate for fasteners

Pole mount

Warning: This equipment must only be installed by an instructed and approved installer. Contact KRUCIAL for approved installer details.
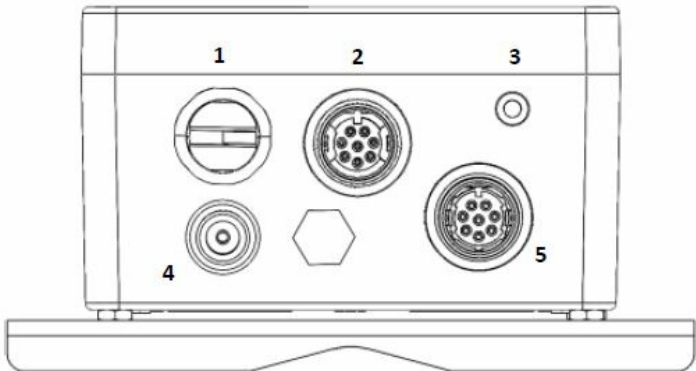
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Component	Hazard	Suggested Mitigation
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Mounting brackets, jubilee clips, wall fasteners	Metal edges could cause lacerations or irritation to hands.	When installing, tough protective gloves should be worn.

The K-Mote must be installed with connectors/interfaces facing down.

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The equipment must only be operated with a protective earth connection. In the permanent electrical wiring to the mains socket, a 1 Amp-rated energy-isolating device, for example, a fuse or circuit breaker capable of providing complete disconnection, must be provided in both the live and neutral phases.

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4	Antenna
5	Power cable

Operation

ON/OFF Switch Status

Status LED

LED Flash	Device State
Solid LED	Switch on; Self-test
Single-flash, every 20s	Normal operation
Double-flash, every 20s	Battery low
Triple-flash, every 20s	Failed sensor read; failed LoRa transmission

Documents / Resources

	KRUCIAL K-Mote LoRaWAN Data Logger [pdf] Instruction Manual R3800009300, 2BBDU-R3800009300, 2BBDUR3800009300, K-Mote, K-Mote LoRaWAN Data Logger, LoRaWAN Data Logger, Data Logger, Logger

References

- ⊕ **Support - KRUCIAL**
- ⊠ **Aquatics**
- ⊠ **Aquatics**
- ⊠ **Connect**
- ⊠ **Connect**