

# LoRa ALARM UNIT

## OVERVIEW

The purpose of installing a LoRa based Alarm Unit on the premise is to:

- Show Emergency Alarm
- Show Alerts triggered from any backend application
- Alerts received as downlink messages over LoRa
- Configurable Multiple Alarm types

## KEY FEATURES

- Configurable via OTA over LoRa
- Multi-color LEDs (**RED** / **YELLOW** / **GREEN**) Alerts
- Buzzer Siren on Alerts received
- LED-Button to manually stop the Alarm
- Class A Device with Secure Data Transmission
- Power run (MTC-AU01, MTC-AU03) or optionally with battery (MTC-AU02, MTC-AU04)
- Available with Red Lens (MTC-AU01, MTC-AU02) and White Lens (MTC-AU03, MTC-AU04)

## SPECIFICATIONS

<b>Model No.</b>	MTC-AU01 / MTC-AU02 / MTC-AU03 / MTC-AU04
<b>Enclosure Size</b>	95 x 95 x 40 mm
<b>Net Weight</b>	150 g
<b>Ingress Protection</b>	IP30 / IP67
<b>OTAA and ADR</b>	Compliant
<b>RF Output</b>	14 dBm
<b>Operating Temperature</b>	-18°C to +55°C

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## APPLICATION

- Control Rooms
- Manufacturing Units
- Villas/Apartments
- Commercial Complexes
- Senior Residences
- Offices
- Hospitals
- Shopping Malls
- Museums

<b>LoRa Frequency</b>	EU863-870 (CE-Certified) IN865-867 (ETA-Certified) US902-928 AU915-928 AS923 -1, -2, -3, -4 KR920-923
<b>SF Supported</b>	7 - 12
<b>Voltage</b>	100 - 240V AC / 3.3V DC, 1A (MTC-AU01, MTC-AU03)  3V (2 x AA-Alkaline Battery) (MTC-AU02, MTC-AU04)

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## ALARM UNIT FUNCTIONALITY

- Always on Indication: **GREEN** LED indicates power status
- Alarms are triggered by LoRa downlink messages
- LED Button-press stops Alarm locally and sends confirmation via LoRa
- Regular heartbeat via LoRa to indicate connectivity status

## ALARM UNIT BEHAVIOR



- **Up to 4 Alarm-Types can be configured on the Device, based on the following parameters:**
  - > LED Color (**GREEN \***, **YELLOW**, **RED**)
  - > LED Behavior (OFF, ON, Flashing)
  - > Buzzer Sound (OFF, ON, Beep)
  - > Alarm Time Duration
- Each configured Alarm-Type is triggered by a specific LoRa Downlink message
- Each Alarm-Type can be used to indicate different scenarios e.g. Alarm raised due to Panic Button Press, Temperature/ Humidity/CO<sub>2</sub> Threshold exceeded, etc.



\* Only with MTC-AU03 and MTC-AU04