



LoRaWAN™ compatible STREET LIGHTING REMOTE MANAGEMENT



[FRCM - LoRaWAN™ compatible lighting panel control and monitoring unit - data sheet]

January 10, 2017

Ver 1.2

FRCM - LoRaWAN™ compatible LIGHTING PANEL CONTROL and MONITORING UNIT

Installed inside the feeder pillar, it is designed to provide autonomous operation for street lighting installations and to carry out three phase measurements and analysis of electrical parameters in street lighting grids.

- › **Autonomous operation** based on predefined astrologic calendar and/or external light level sensor (digital INPUT).
- › **Remote real-time ON/OFF control.**
- › **Measures parameters** in street lighting grids: power factor, active/ reactive/ apparent power, voltage, current, frequency, daily active/ reactive energy consumption.
- › **Offers configuration options** for: current transformer ratio, voltage/power thresholds and daytime/nighttime consumption thresholds.
- › **Reports** any malfunctions and errors to the central server in real-time: under/over power, under/over voltage, phase failure.
- › **Inputs:** 2 x Digital input.
- › **Output:** 1 x Dry contact relay output (230V, max 12A).



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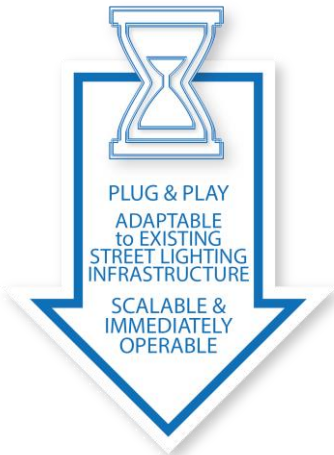
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MEASUREMENTS:

- › voltage
- › current
- › active power
- › reactive power
- › apparent power
- › active energy
- › reactive energy
- › power factor
- › frequency

CONFIGURABLE PARAMETERS:

- › current transformer ratio
- › voltage/power thresholds
- › daytime/ nighttime consumption threshold

GENERATED ALARMS:

- › current transformer ratio
- › voltage/power thresholds
- › daytime/nighttime consumption threshold

| FRCM-IL * | |
|-------------------------|--|
| Product description | Street lighting panel control and monitoring unit |
| Power supply | Direct connection |
| Power consumption | Max. 3 W |
| Communication interface | LoRaWAN™ |
| Voltage input range | 0V - 265V / 45-65 Hz |
| Input | R, S, T voltage inputs R, S, T, N current inputs 2 x Digital input |
| Power network type | Three phase electric network and Neutral |
| Current transformers | Standard X:5, where X is user definable |
| RF spectrum | 915MHz-917MHz |
| TX Power | 25/100mW (Depending on used channel) |
| Operating temperature | -25°C to + 80°C |
| Connectors | Lead wires or 2.5 mm ² terminals |
| Output | 1 x Dry contact relay (230V, max 12A) |
| Battery operation time | ~ 6 hours |
| Dimensions (L x W x H) | 70 x 90 x 63 mm |
| Certifications | IEC 60068-2-1, IEC 60068-2-2, ANSI/IEC 60529-2004 |

*Product subjected to development according to published LoRaWAN regional specification



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