

# LPWAN RFID reader

## PRODUCT DESCRIPTION

LPWAN DIN ModBus/RS485 device has been designed for interconnection with different ModBus/RS485 devices such as electric meters, industry water meters or calory meters. Generally customer can connect also various RS485 probes which can be adopted by sufficient FW. Originally this device was created for cooperation with INEPRO electric meters both 1 phase or 3 phases, however it can be adopted to any other ModBus equipment if ModBus LPWAN RFIDReader is battery operated tag/card reader of MiFare 13.56MHz standard and has been developed for simple attendance system where easy installation is required. The reader contains 4 buttons and by pressing one of them, the reader wakes up from deep sleep and waits for RFID identification. Then the message with button ID and RFID is sent to an application. 4 buttons means 4 different stories behind. RFID is sent to an application. 4 buttons means 4 different stories behind. LPWAN RFIDReader is designed for multiple purposes of human presence supervision and during 4 years of production we delivered this device to different areas of business e.g. facility management, social and health care, mobile/island work attendance system at construction industry, hospitals etc. Front panel is fully customized and different icons or labels can be designed upon request. Built in thermometer and humidity meters allows to extend purpose of the RFIDReader where simple environmental monitoring is required. RFIDReader contains accelerometer as replacement of anti-theft tamper contact.

### USAGE

- Work attendance system
- Cleaning service supervision
- Helath and social care management
- Hotel cleaning and maintenance management



| VLASTNOSTI                | PARAMETRY                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Protection                | IP20                                                                                                                          |
| Operating temperature     | -10 to +85°C                                                                                                                  |
| Power supply              | 3.6V lithium battery 14505(M)/2600mAh, 2 batteries possible                                                                   |
| Power consumption         | <3,5uA in deep sleep/80mA transmission (Sigfox, LoRa) / 500mA (NBloT)                                                         |
| Battery lifetime          | Aprox. 20 000 transmissions                                                                                                   |
| Supported LPWAN standards | Sigfox, LoRaWAN, NBloT (one of selected upon order)                                                                           |
| Dimensions                | 120 x 77 x 25                                                                                                                 |
| Weight                    | 145g                                                                                                                          |
| Built in sensors          | Thermometer -10 to +125°C/ accuracy+/- 0.5°C Humidity meter 0 to 100% / accuracy +/- 3% Accelerometer – anti theft protection |
| Indicator                 | LED and beeper                                                                                                                |
| Antenna/typical range     | Built in helical, gain 2.5dBi/45 to 110km depends on LPWAN technology                                                         |