



LPWAN DIN ModBus/RS485

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 register structure is described.

ModBus/RS485 device is available in a housing suitable for DIN rail mount. It's intended to indoor installation with IP20 protection. User can connect the device very easy to ModBus equipment just over A and B wire and the device is powered directly from 230V. Modification for battery power is available too.

Due to Sigfox message length limitation, we provide only fundamental parameters from connected electric meter. Other technologies can work with much longer messages and user can define registers which are interested for him.



Usage

- Electrical energy measurement
- Invoicing for electric energy consumption
- Critical energy consumption monitoring

| LPWAN Pressure IP65 device | Parameter |
|----------------------------|---|
| Protection | IP68 – all electronic parts are in resin by default |
| Operating temperature | -40 to +85°C |
| Power supply | 230V, alternatively 3.6V lithium battery 9000mAh C size (not for GSM – 230V version only) |
| Power consumption | <50uA in deep sleep/80mA transmission (Sigfox, LoRa) / 500mA (NBLoT) |
| Battery lifetime | Aprox. 30 000 transmissions |
| Supported LPWAN standards | Sigfox, LoRaWAN, NBLoT, GSM (one of selected upon order) |
| Dimensions | 86 x 60 x 34 + antenna 50 mm |
| Weight | 75g, alternatively 130g with the battery |
| ModBus | RS485 interface with A/B wire, configurable registers for NBLoT, LoRaWAN and GSM |
| Accuracy | Defined by connected electric meter |
| Antenna/typical range | Helical, gain 2.5dBi/45 to 110km depends on LPWAN technology |





LPWAN DIN ModBus/RS485 in details



Android application for B2C solution coming soon (4Q/2020)...

- Quick device adding to list over QR code
- Edit/Delete device
- Up to 250 devices in list
- Important parameters quick view
- Push/email notifications
- Device battery and signal status view
- History data view

