

LoRaWAN® IZAR UM30xx Quick Start Guide

1 Setting up NAS Connect app

Install [NAS Connect](#) for iPhone. Not available for Android at this point.

Log in using [services.nasys.no](#) account (request for account at [support@nasys.no](#)).

Make sure your account has sufficient rights to access your UM30xx using [services.nasys.no](#).

2 Provisioning

Register UM30xx at your LoRaWAN network provider. Necessary keys are DevEUI, JoinEUI (AppEUI) and AppKey. Device class Class A, activation join OTAA, LoRaWAN MAC version 1.0.3, regional param rev A.

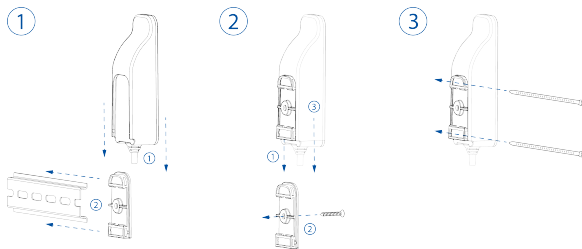
The keys are delivered by distributor. For samples there is a sticker with keys as plain text and QR code.

3 Mounting

UM30xx DIN rail mount: follow the steps on figure 1 below.

UM30xx wall mount: follow the steps on figure 2 below. Use anchor if needed.

UM30xx pole mount: follow the steps on figure 3 below (zip ties not included).



4 Wiring

UM30xx wire color	Function	Wiring
Pink	L-Bus	Connect to L-Bus signal
Brown	Ground (common)	Connect to L-Bus ground
White	Pulse1 input	Connect with switch / reed / open-drain / open-collector pulse output
Grey	Ground (common)	
Blue	Pulse2 input	Connect with switch / reed / open-drain / open-collector pulse output
Black	Ground (common)	

5 Configuration

Launch NAS Connect app and move the top edge of iPhone near the NFC logo on UM30xx until connection is established.

5.1 Manual Configuration

Open navigator by tapping on (top-left button) and navigate through different pages.

L-Bus Configuration Page

- *DataRecords in Usage* - select DataRecords from L-Bus frame to be forwarded in frequent *usage_packet* (add minimum number of necessary parameters that need to be transmitted frequently).
- *DataRecords in Status* - select DataRecords from L-Bus frame to be forwarded in daily *status_packet* (add minimum number of necessary parameters that tolerate daily updates or never change).
- *DataRecords in wM-Bus* - select DataRecords from L-Bus frame to be forwarded in frequent wM-Bus frame

Pulse Configuration Page

- *Counter mode* - counts (accumulates) pulses. Suitable for pulse output of water/gas/heat/electricity meters etc.
 - *Fractional Multiplier* - apply multiplier to convert pulses to reported unit
 - *Interface SN* - optional serial that would be reported in status packet
- *Trigger mode* - detects input changes. Suitable for alerts like door opening / flooding / AC outage (with adapter) etc.

Radio Configuration Page

- *LoRaWAN Profile* - configure the Usage Packet transmission interval.
 - *Static Profile* - forces desired interval on all DataRates, invalidates expected battery lifetime.
 - *Dynamic Profile* - keeps transmission interval on optimal level for all DataRates to ensure battery lifetime.
- *wM-Bus Profile* - configure the wM-Bus mode.
 - DriveBy - start of day readout
 - Privacy - end of prev. month's readout
 - Fixnet - value updated every 15 minutes

Location Configuration Page (Optional)

set meta information like address, meter ID, customer ID, device location etc that can be later accessed over LoRaWAN.

- *Timezone* - set proper timezone. NB! If installed during Summer Time it is recommended to manually set Winter Time by decreasing Time Zone value by -1 h. .

5.2 Configuration with Presets

Save common settings into phone as presets (does not include serials, IDs, locations etc).

Load saved presets on other UM30xx's for faster deployment.

For more information, e.g. F.A.Q. see [UM30xx Datasheet](#).

