User Manual

Intuitech Connector USV for FIBARO Home Center 3, HC3 Lite and Nice Yubii Home

1. What you need

Requirement	Note
Controller	FIBARO Home Center 3, Home Center 3 Lite or Nice Yubii Home, firmware 5.220 or newer
UPS with network port	built in or through an add on network card
SNMP on the device	SNMPv1 or v2c with a read only community
Same network	controller and UPS must be able to reach each other
Licence key	supplied by us for the serial number of your controller

> **A USB port is not enough.** Over USB a UPS only talks to a directly connected computer. The controller needs the network path. Many units offer an expansion slot for a network card.

2. Enabling SNMP on the UPS

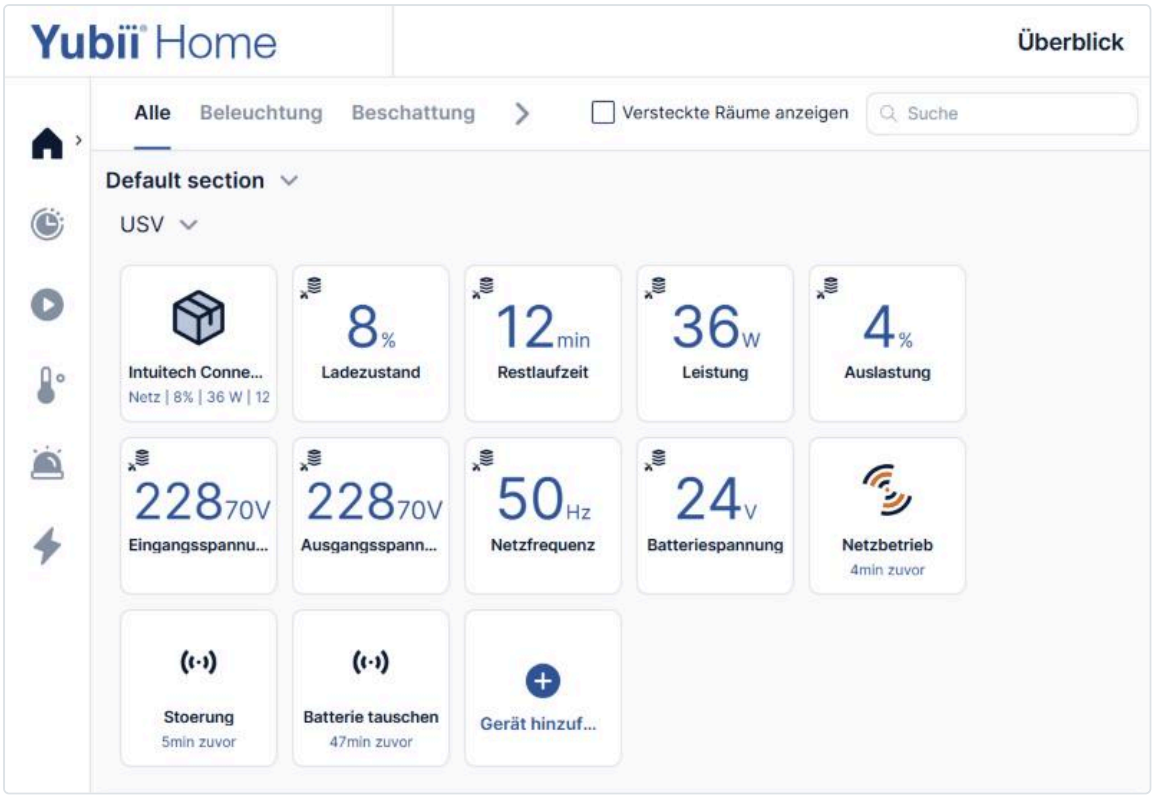
1. Open the web interface of the UPS or its network card and sign in.
2. Find the network or SNMP section.
3. Enable SNMPv1 or v2c. SNMPv3 is not supported by this connector.
4. Set a read only community. Do not leave it at `public`.
5. Where the device allows it, restrict access to the address of your controller.
6. Save. Some cards restart at this point, the connected equipment is not affected.

3. Setting up the quick app

1. Import the file we supplied under Settings, Devices, Add device.
2. Open the new device and switch to its variables.
3. Set `ip` to the address of the UPS and enter the `community`.
4. Enter the licence key and save.

The controller creates eleven devices and logs manufacturer, model, serial number, both firmware versions and the date of the last self test.

4. The eleven devices



The eleven devices in the controller, here grouped in a room of their own. The tile at the top left is the connector itself, showing mode, charge, load and remaining runtime on one line.

Device	Meaning
Charge level, Remaining runtime	state of charge and minutes left at the current load
Load, Load percentage	power drawn in watts and as a share of rated power
Input voltage, Output voltage, Mains frequency, Battery voltage	electrical readings
On mains	on means mains power, off means battery operation
Fault	on when an alarm is pending, the battery is due or the system runs on battery
Replace battery	on when the UPS itself asks for a replacement
Netzeinbrueche heute	number of short mains dips since midnight that were too brief to report

> **A low charge is not a defect.** After a long outage or during a calibration the battery is empty, which is normal. Replace battery therefore only turns on when the UPS itself asks for a replacement.

5. Messages

Message	Urgency
Power failure, with charge and reserve	urgent, sent immediately
Power restored, with the duration	urgent
Battery should be replaced	urgent
Load above the threshold	urgent
Load implausibly low	held until morning
Battery is not being recharged	held until morning
Measurement finished, unit is charging again	held until morning
Battery full again, with the measured runtime	held until morning

Held messages are not lost. The connector keeps the reason and sends them once quiet hours are over.

> **By default only the two power failure messages are sent.** The variable `Nur_Ausfall` is set to 1, so only the outage and the return of mains power reach you. Everything else is still monitored and written to the log. Set the variable to 0 to receive all messages.

> **Short dips raise no alert.** Only an interruption longer than the minutes set in `Ausfall_ab_min`, five by default, counts as an outage. Shorter dips are counted and shown in the device Netzeinbrueche heute.

> **Messages are off by default.** Only set the variable `melden` to 1 after checking the recipients. While it is 0 everything is evaluated and logged but nothing is sent.

6. Building your own automations

The most useful trigger is the On mains device. It knows only on and off and therefore works in any scene.

Shedding load during an outage

When On mains turns off, a scene switches off floor lamps, outdoor lighting and decoration, so the reserve stays with the cameras and the network. A second scene restores the previous state.

Keeping quiet on battery

While the system runs on battery, presence simulation can pause and heating control can stay still. Only what truly matters keeps running.

Watching the battery age

Chart runtime and load. If runtime falls at the same load, the battery is ageing, and you plan the replacement instead of experiencing it.

7. Variables

Variable	Default	Meaning
ip	empty	address of the UPS or its network card, required
port	161	SNMP port
community	public	read only community, please change it on the device
intervall	30	polling interval in seconds
debug	0	1 logs every reading, for fault finding only
melden	0	1 enables push and e-mail
Empfaenger	2	user numbers of the controller
Meldeweg	push	push, email or beide (both)
Nur_Ausfall	1	1 sends only the two power failure messages, everything else is logged only. 0 sends all messages
Ausfall_ab_min	5	minimum duration before an outage counts as one. Shorter dips are only counted
Last_max_W	150	upper warning threshold in watts
Last_min_W	5	lower warning threshold in watts, 0 disables the check
Last_ruhe_min	3	how long a condition must persist before it is reported
Ruhezeit_von	22:00	start of quiet hours
Ruhezeit_bis	07:00	end of quiet hours

8. Troubleshooting

Observation	Cause and remedy
No connection, no readings	SNMP not enabled, wrong community, or an access filter excludes the controller
Some readings stay empty	your device does not answer those objects. Use the source check button
Load shows 0 although equipment is connected	some units round very small loads to zero. If it persists, check that the equipment is on the battery backed outlets and not on the surge only ones
Remaining runtime missing	after a deep discharge some devices return a meaningless placeholder. The connector discards such values
The UPS beeps without an outage	most likely a battery calibration. The status line says so. Let it finish
No messages arrive	`melden` is 0, the recipient is wrong, or the message fell into quiet hours

Support

Please write to post@intuitech.de, stating the model of your UPS and the serial number of your controller.