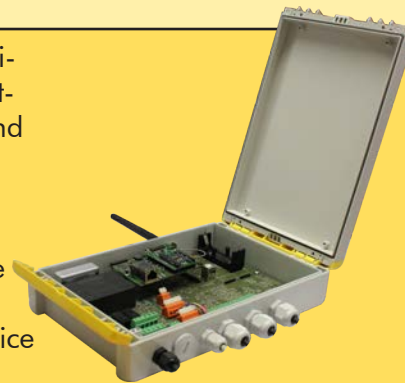


Tixi Wand.Box models

The new **Tixi Wand.Box W600** combines all the well known and intelligent Tixi-functionalities with a big amount of analog and digital in-/out-puts and interfaces in an IP65-wall housing with 230V-power supply and an emergency battery.

Choosing the **W640** model, the user is able to select the suitable combination of in- and outputs for his exact field of activity. He can pick the **S1-modules** by himself and plug them into the 5 free slots.

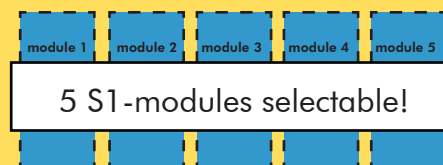
The model **W660** combines typical analog and digital I/Os in one device and offers 1 slot for an optional **S1-module**.



	W640		W660		OEM-customers
	WE640	WG640	WE660	WG660	W600
WAN	-	GSM/GPRS	-	GSM/GPRS	?
CPU	LAN				?
Flash-Memory	400 MHz				400 MHz
USB Memory max.	128 MB				128 / 1 GB
M-Bus-meters	32 GB				?
1-Wire-sensors	50				50 / 100
USB	50				?
Relays 230 V, 3 A	1				?
Digital inputs 230 V	2				?
PSU 100...240 V	2				?
Battery mode	1				1 / 0
RS232	-				?
RS485	1				?
Slot 1	free		3x AE		?
Slot 2	free		2x PT1000		?
Slot 3	free		2x AA		?
Slot 4	free		3x S0		?
Slot 5	free		free		?

Wand.Box options

High Speed mobile radio	UMTS / HSPA / LTE
Wireless service	WLAN
Alternative to M-Bus	MiniBus/LocalBus
Battery mode	19.000 mAh



5 S1-modules selectable!

S1- plug-in modules

These S1-modules are pluggable in various combinations:

S1-D50	5x digital inputs
S1-D05	5x digital outputs
S1-D03G	3x digital outputs, electrically isolated
S1-AE3	3x analog inputs 4-20mA / 0-10V
S1-PT3	3x temperature sensor input Pt-1000
S1-AA2	2x analog outputs 4-20mA / 0-10V
S1-WL2	2x relays 230 V, 3 A
S1-S03	3x S0-pulse inputs

Tixi Wand.Box

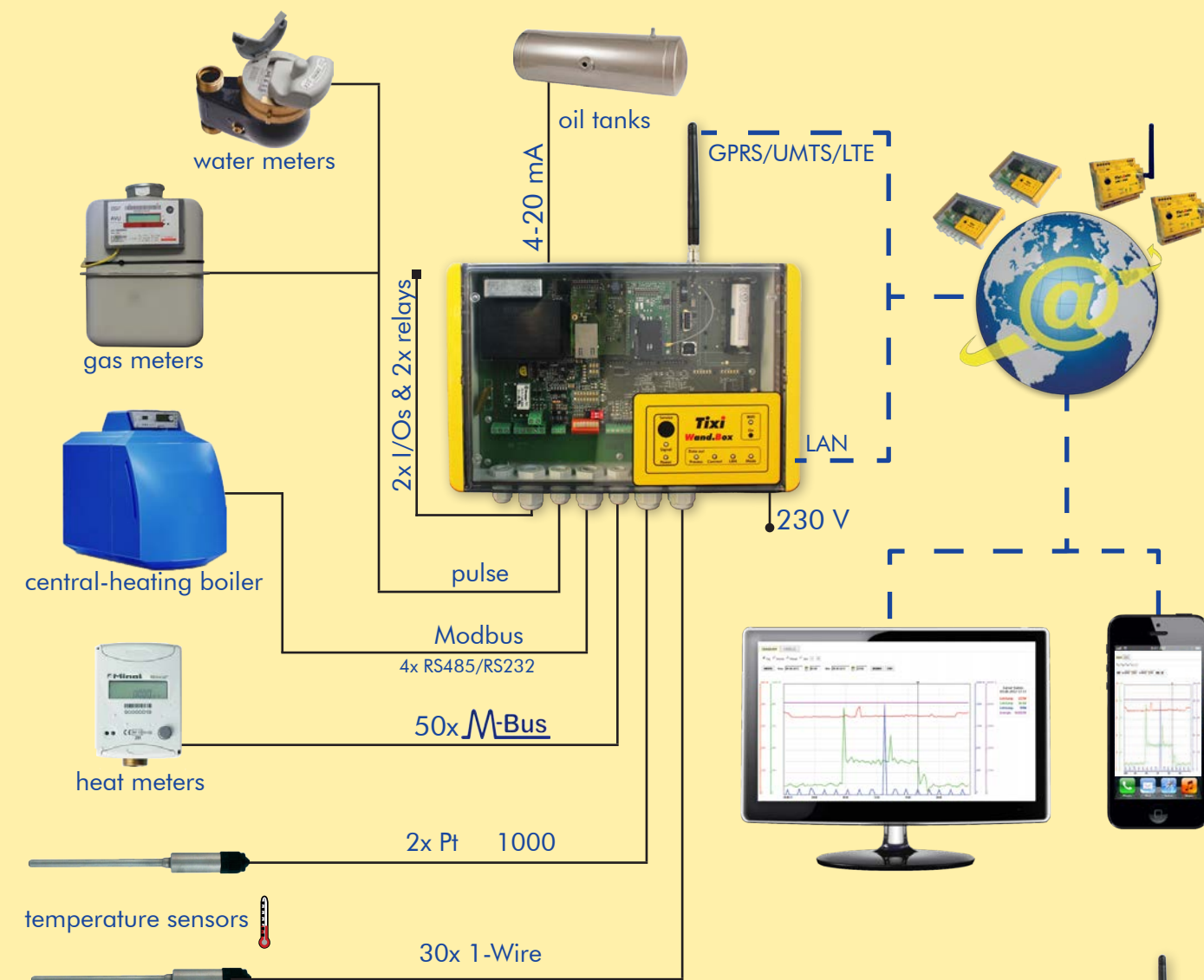
Tixi Gateway

- Alarming
- Datalogging
- Internal web server
- PLC-Protocols
- Remote maintenance



Energy-Monitoring

- M-Bus and ModBus meters
- Pulse output meters
- Analog / digital I/Os
- Pt1000 / 1-Wire
- Relays



Option: WIFI service

Technical Data

- GSM/GPRS/EDGE
- UMTS/HSPA/LTE
- LAN/Ethernet
- Modem 56k
- CPU: 400 MHz
- RAM: 128 MB
- Flash: 128 MB
- USB: up to 32 GB

Option: Low power mode via an internal battery



Universal data logger Tixi Wand.Box W600



Universal data logger Tixi Wand.Box W600

The Tixi Wand.Box W600 is an intelligent computer for communication with a fast CPU, big data storage, Linux OS, XML-data base-architecture, internal web server, open software interfaces, 230 V power supply, battery for emergency messages incase of power failure and many different hardware interfaces, all combined in an IP65-housing.

Operation area: Energy-management and smart metering or energy-monitoring
Heat contracting, energy-efficiency-systems
Smart Grid applications
Monitoring- and controlling functionality

Functions: Alarming via SMS, e-mail, web with acknowledgement
Telecontrol by SMS, e-mail or web
Data logging for I/Os und SPSe
Logical functions, limit monitoring
Web server with an open data interface
Web portal interface

Hardware:

- LAN (10/100 MBit/s)
- GSM/GPRS/UMTS/LTE-Modem in WG600
- Data logger with 128 MB flash-memory and optional micro-SD-card up to 32 GB
- M-Bus-level converter for up to 50 M-Bus-devices (Option: up to 100 devices)
- OneWire-interface for 50 temperature sensors, 1 temperature sensor already built-in W600
- 1-2 x RS232, e.g. for the connection with up to 2x 250 M-Bus-meters or 1-2 E-meters Type eHZ with adapter cable
- 1-2 x RS485, e.g. for the connection with heating- or cooling systems or PLCs via Modbus
- 2 x Relays 230 VAC, 5 A
- 2 x AC-digital inputs, 90-230 VAC, e.g. alarm output heating system
- 5x S1-I/O-modules pluggable in any order (WG640, WE640) or four I/O-modules built-in in WG660 and WE660 and one free slot
 - 3 x analog inputs, 0-20 mA / 0-10 V
 - e.g. humidity-, filling level- and pressure sensors
 - 2 x analog outputs, 0-20 mA / 0-10 V, e.g. for controlling and timing
 - 2 x temperatur sensor input Pt 1000
 - 5 x digital input, up to 24 V DC
 - 3 x digital output, up to 125 V AC/DC, 120 mA, electrically isolated
 - 2 x relays, up to 230 V AC, 3 A
 - 3 x S0-pulse input, e.g. for power and gas meters



Tixi CPU-board B600:

The Wand.Box comes with a powerfull 400 MHz processor and 128 MB RAM besides a 128 MB FLASH-Memory. With an USB memory stick the memory is expandable up to 32 GB.

Standard:		Special options:	
RAM:	128 MB	RAM:	256 MB
FLASH:	128 MB	FLASH:	256 MB/ 512 MB/ 1GB
USB memory:	max 32 GB	μSD:	max 32 GB

Emergency battery

Equipped with an emergency battery the device is able to send an alarm sms or e-mail incase of power failure.

Option: battery mode

Lowpower with battery mode. Depending on the requirements different battery life spans are possible, as well as up to 6 years.

Example 6 years battery mode:
19.000 mAh
1 MiniBus meter
1 reading once a day
1 sending once a week

230 V power supply + emergency battery:

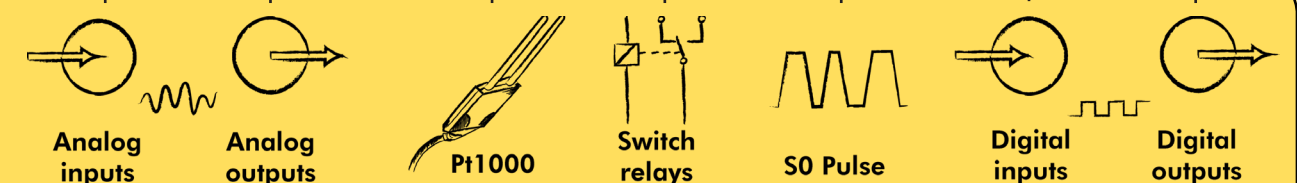
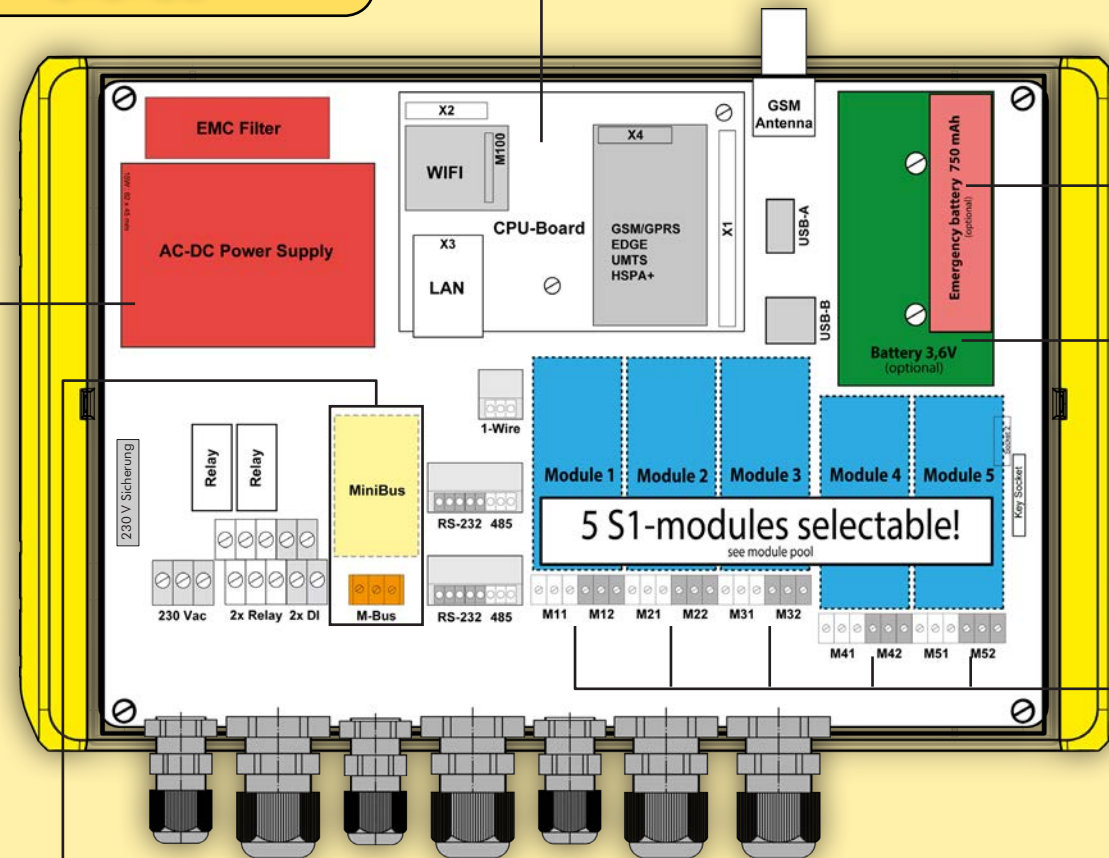
The Tixi Wand.Box offers an internal 110-230 V AC power supply standardized.

Energy data collection via M-Bus:

The device functions as a M-Bus master and level converter for 50 or 100 meters (power, heat, gas and water) with data logger functionality and web interface. It is possible to choose exactly which type of data is needed for the logfile.

Mini-Bus data logger with battery-mode

A planned version of the Wand.Box will be equipped with Mini-Bus and will have the ability to log and send data once a day only in battery-mode.



The module pool - Choose your I/Os!

The Tixi Wand.Box provides the possibility to be equipped freely with different I/O modules. Easy like a PLC.

The Tixi Wand.Box W600 offers 1 or 5 slots for up to 20 digital and analog in- and outputs and up to 5 interfaces for the local communication. Users can choose the right combination of in- and outputs from the S1-module pool and can install them by themselves easily.