

Xenon8-MBmm / -zzmm Oktabox



GSM Reading of water and heat meters

- Interface for Sensus meters
- Integrated GSM modem
- Power supply by internal battery

Supplied items

- Xenon8-MBmm / Xenon8-zzmm module
- Integrated lithium battery, ready for use
- external FME-antenna
- Magnet for magnetic switch
- 5m Data cable with open ends

Available versions

Version	SIM-card-contract	Mini-Bus	Pulse input	Report/ alarm-input	Order number
- zzmm	x		2	2	184044
- zzmm			2	2	184045
-MBmm	x	2		2	184046
-MBmm		2		2	184047



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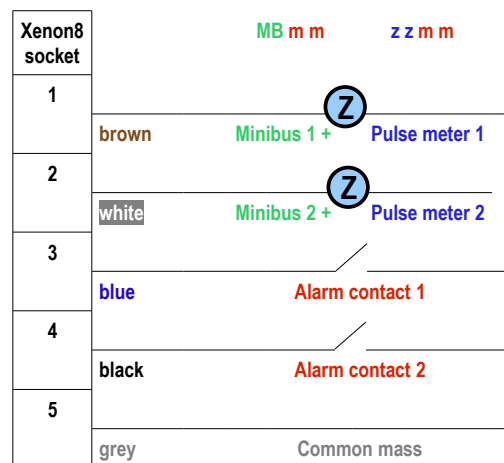
Technical data

Protection class:	IP68
Dimensions:	120 x 120 x 75 mm
Weight:	approx. 950g
Fastening:	4 screws
Temperature range:	-20° C to +55° C
Power supply:	lithium battery 3.6 V life approx. 7 years
Power consumption:	stand-by: max. 0,04 mA active: approx. 30 mA transmitting: max. 250 mA
GSM-Modem:	Motorola G24-Quadband
Input pulse:	count frequency: max. 15 Hz
Input levels:	Uo 3,6 V / I0 36 µA ULOW <= 0,5 V UHIGH >= 2 V
Connections:	FME-antenna plug
Operation panel:	magnetic switch to activate
Displays:	dual - LEDs for status of modem GREEN: OK RED: Error

Battery note

WARNING – The device contains a lithium battery. If battery is mis-handled, it could cause a fire or explosion. It mustn't be exposed to temperatures above 80°Celsius or immersion in water. Do not open, recharge or cause a short circuit. Electronic equipment or components that are no more required, are special waste and should be disposed at suitable collection points. If inserting the battery, pay attention to the polarity.

Occupancy of the data socket



Installation and starting operations

Casing protection is IP68 and internally sealed. In order to maintain IP68 conditions, the casing may not be opened

1. MiniBus version: check MiniBus addresses:

Set the main meter to Minibus address 0. If a second meter is connected, this meter is to be set to address 1:
→ avoid designating identical addresses to different meters!

With the Sensus encoder operation counter the transmission rate must be adjusted at 300Baud.

2. Connection of cable

Connect the meters as shown in the wiring diagram. Use an installation box suitable for IP68 (we recommend the cable connector order number 181784). Secure the Xenon enclosure so that it is possible to alter its position – should it be necessary.

3. Activation:

Pass the magnet over the Sensus logo. If the Xenon8 module is activated, the LED will blink green. After 1-3 minutes the status will be shown on the server. Watch the LED control panel:

LED GREEN blinking	→ searching for GSM network
LED ORANGE	→ OK – sending SMS
LED GREEN ON	→ OK – GSM network found
LED RED ON	→ error: no network found

If the network wasn't been found (LED red), the antenna position should be changed or try to use another SIM Net Card. The use of an old antenna could also be possible.

4. Reception test:

As soon as all LEDs of Xenon8 are off again, you should run a reception test by mobile phone to check the status (→ [command sentence](#)).

5. Level check:

If the level of the returned message on the mobile phone is <20%, find another position for the instrument. Activate the instrument again using the magnet and repeat the procedure.

6. Fastening:

Once you have located a position with a suitable signal level, fasten the device to the wall, or suspend the unit using the fastening brackets. Ensure that the cable entry glands face downwards.

Note

When connecting or disconnecting the data cable, please fix mounting plug to the 17mm open end spanner. Please only screw the antenna socket and the data socket by hand, do not use any tools.

Command sentence

In order to receive status inquiry following SMS text command can be sent by mobile phone to (+49172 8484 176):

„Status_+49xxx“
– “(dash) after status indicates a blank space
“xxx” must be replaced by the Xenon8 module number

Note: The answer will be the last data stored at the Data centre. For the update of the data on the server use the magnet.

Example of status report (for MiniBus Adr. 0)

Status +49xxx OK 24.11.09 06:37 ID0: 000027650 Z0: 10.4m
ID1: ?00000000 Z1: 0 Pegel: 39% Demo: 1 Routine: t 06:30
Zeitdiff: 0s Komm: 1 Reset: 1,0,0,0 Batt: 03,56V Eingang 1: aus
Eingang 2: aus

The text will be limited to 140 signs.
Check date, when you receive the answer.

Manufacturers' declaration

WIKON Kommunikationstechnik GmbH www.wikon.de

Description of component:
Xenon8-MBmm / Xenon8-zzmm is a battery operated instrument for remote data reading based on GSM-SMS technology.
Applied standards:
The manufacturer declares that the specific component is produced in accordance with the following standards
EMV directives
EN61000-4-3 radiated RF immunity
EN55011 A radiated RF emissions
EN61000-4-4 Burst immunity of data lines
EN61000-4-6 conducted RF immunity of data lines
EN61000-4-2 ESD

Installation notes

Telephone number: <input type="checkbox"/> D1 <input type="checkbox"/> D2 <input type="checkbox"/> _____
<input type="text"/>
Type of meter: <input type="checkbox"/> MiniBus <input type="checkbox"/> pulse
Meter reading 0/1:
Meter reading 1/2:
Alarm contact 1:
Alarm contact 2:
Installed at: 20 __ - __ - __ / time __ : __
Customer:
Address:
Notes: