



GSM Reading of water and heat meters

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

Supplied items

- Xenon module
- Battery, ready for use
- Internal antenna
- IP68 protection of casing
- Magnet for magnetic switch
- Enclosure with fastening brackets

Available versions

Version	SIM card contract	pulse input	alarm input	minibus	order number
XENON-zz	X	2	—	—	18 40 13
XENON-zm	X	1	1	—	18 40 14
XENON-MB	X	—	—	2	18 40 15
XENON-zz	—	2	—	—	18 40 17
XENON-zm	—	1	1	—	18 40 18
XENON-MB	—	—	—	2	18 40 19
Accessories					
IP68 junction box					18 20 73
IP68 plug					18 20 74

Technical Data

Protection class: IP68
Dimensions: 122 x 120 x 55 mm
Weight: approx. 475 g
Fastening: 4 screws
Temperature range: -20 °C to +60 °C
Power supply: lithium battery 3.6 V
Power consumption: stand-by: max. 0.04 mA
 active: approx. 30 mA
 transmitting: 250 mA max.
GSM modem: CE 0681

Battery note

The device contains a lithium battery. The battery must not be forcefully opened, short-circuited, exposed to contact with water or sustained temperatures above 80 °C. Depleted batteries, redundant electronic equipment or components are regarded as hazardous waste and should be disposed of at suitable collection points, alternatively sent back, postage free, to the supplier.

Manufacturers' Declaration

WIKON Kommunikationstechnik GmbH

www.wikon.de

Description of component

XENON is a battery operated instrument for remote data reading based on GSM-SMS technology

Applied standards

The manufacturer declares that the specified component is produced in accordance with 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

Cable connection

Cables of minibus versions: signal (red cable) and GND (black cable).

Cables of variants -ZZ/-ZM: GND (black cable), input 1 (white cable) and input 2 (yellow cable). Inputs can optionally be connected with one cable or with both cables, but a double connection of inputs must be avoided.

Installation table

Version	Input 1	Input 2
XENON minibus	minibus1	minibus2
XENON pulse	pulse meter 1	pulse meter 2
XENON pulse + alarm	pulse meter	alarm contact

Status inquiry via mobile phone

In order to receive information the following SMS text command can be sent by mobile phone to the WMH server (+49172 8484176):

Status inquiry: „Status_+49172xxx“

The _ (dash) after Status indicates a blank space, xxx must be replaced by the WIKON module's number

Note: The answer will be the last data stored on the server. The call line identification presentation (CLIP) has to be activated on the mobile phone. For the previous **update of the data on the server** use the magnetic switch.

Example of status answer "ok":

(2 minibus meters)

```
== Status == Do 10.03.04 10:08:38+01*
ID0:000111111111 V0:00000007968
ID1:0001234567 V1:000000029540
Batt:03,62V Pegel:96% Reset:01,00,00,00
```

Example of status answer "not ok":

```
== Status == Do 10.03.04 10:08:38+01*
ID?0:000111111111 V?0:00000007968
ID?1:0001234567 V?1:000000029540
Batt:03,62V Pegel:96% Reset:01,00,00,00
?stands for meter unknown/values are last status
```

LED displays

Soon after activation the LED's will illuminate and on minibus versions the external LED including the SND-LED and REC-LED will illuminate initially.

Position of LEDs (left side)

- yellow Modem
- yellow Extern
- green SND
- green REC
- Magnetic relay

Status of modem

modem yellow LED	external yellow LED	SND green LED	REC green LED	remarks
on	off	on	on	searching for GSM network
blinking	off	on	on	network found
blinking	off	on	off	sending SMS
blinking	off	off	on	receiving SMS
blinking	off	off	off	OK, i.e. all SMS sent and received
off	off	off	off	standby

Installation and starting operation

Casing protection is IP68. 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 to be connected, this meter is to be set to address 1.

➡ avoid designating identical addresses to different meters!

2. Connection of cable:

Connect the cable according to the installation table. Use an installation box suitable for IP68 (e.g. available Sensus accessory).

Secure the enclosure so that it is possible to alter its position - should this become necessary.

3. Activation:

Pass the magnet along the left side of the enclosure. The XENON unit is activated as soon as the LED's are illuminated. Approx. 3 minutes later there will be a status acknowledgement to the server.

4. Reception test:

As soon as all LEDs of XENON are off again, you should run a reception test by sending the SMS command „Status_+49172xxx“ via mobile phone to the WMH server.

(xxx stands for terminal number
_ stands for blank space)

5. Level check:

If the level of the returned message on the mobile phone is <30%, 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.