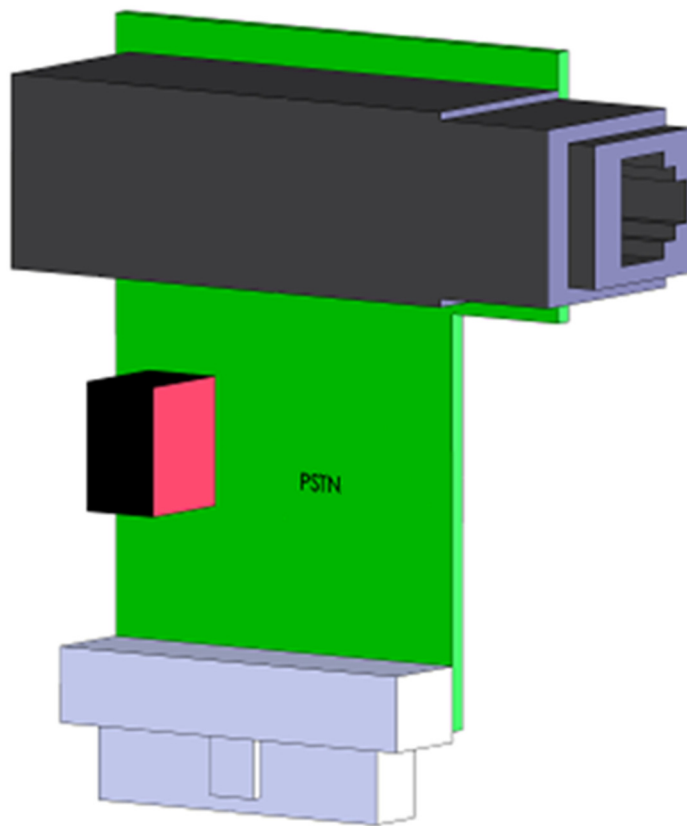


PSTN module



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Preface

- This manual provides important information. Read this manual carefully.
- Various observations and warnings are marked in this manual by means of symbols. Read these carefully and take measures if necessary.

The symbols used have the following meaning:

**OBSERVATION**

Suggestions and recommendations to facilitate task performance.

**PLEASE NOTE**

An observation alerts the user to possible problems.

**WARNING**

If the action is not implemented correctly, data or settings may be lost.

**ESD**

An observation alerts the user to take measures for ESD.

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1 Introduction

The PSTN module is a module that can be used in all mains-supplied models of ISC230, SC230 and ISC230B.

Article code NN2565.

The module is designed to be plug-and-play, once powered, the embedded microcontroller takes care of all needed settings on the modem module part. When used in installations with an UNIGAS electronic volume converter, settings to the UNIGAS are needed for proper operation. See chapter 4 “UNIGAS settings”.

2 Installation

2.1 Installing the module



ESD

Electrostatic discharges (ESD) can cause damage to internal electrical components if no precautions are taken. ESD is caused by static electricity and the damage caused is usually permanent.



WARNING

Some of the components in the device in which the PSTN module is to be installed are connected to the mains voltage. Switch off the mains voltage prior to performing these activities. See the user manual for the device in which the G485B module is to be installed.

Depending on the device in which the PSTN module is to be installed, this will take place as follows:

- ISC230 and SC230 (see label on the left of the casing): connect the PSTN module to the free connector.
- ISC230B (see label on the left of the casing): there are three connectors present. There may already other modules be installed. Connect the PSTN module to a free connector.

2.2 Connecting the equipment a PSTN network

The module is connected to a PSTN network via an RJ-11 connector on a two-pair, four core cable. If applicable, the connector should be crimped to the cable after putting the cable through one of the cable glands. The cable gland must be well tightened.

3 Status indicators and connections

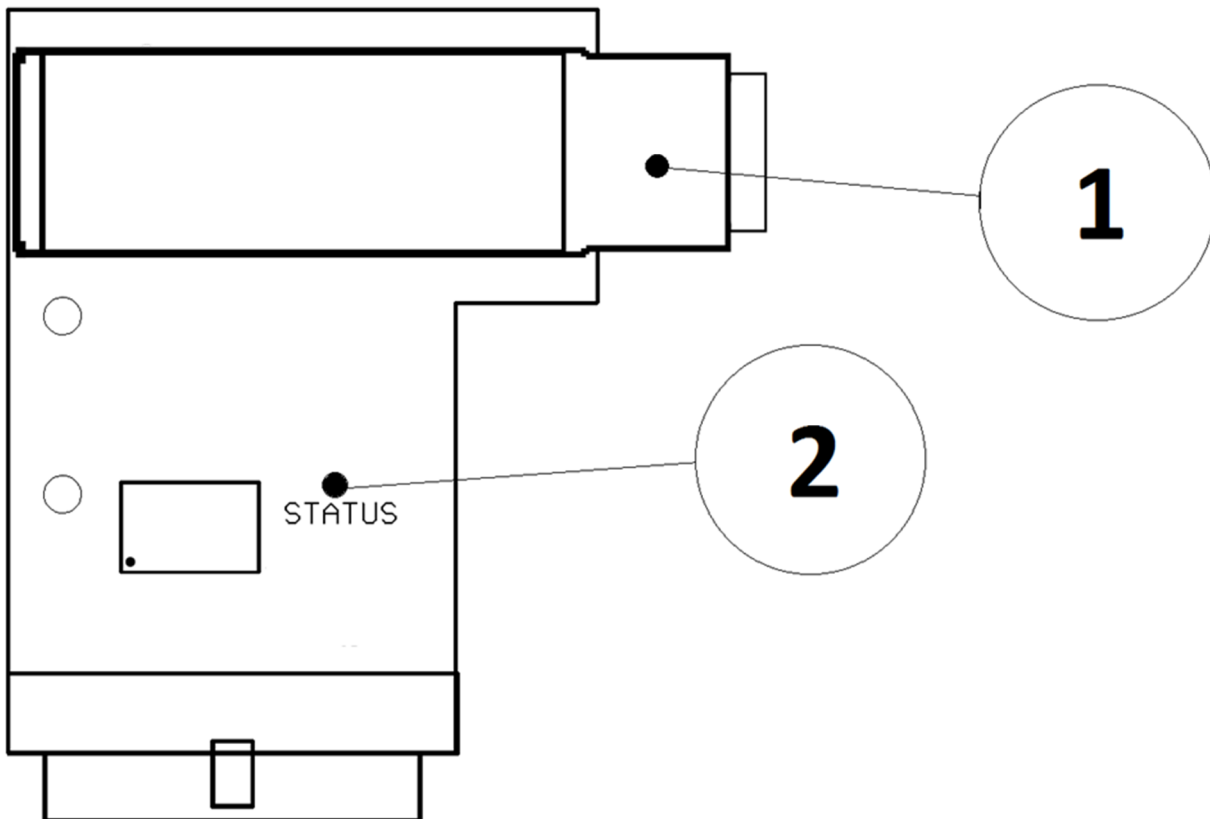


Figure 2. Connector and LED on the PSTN module

1. RJ11 connector for a PSTN cable
2. LED indicator for module state:
 - a. Continuously on: Module is powered and offline.
 - b. 5 short blinks (3Hz): RING received.
 - c. Slow continuously blinking (1Hz): Online.
 - d. Fast continuous blinking (10Hz): Error state, modem detected but could not be programmed.
 - e. Short burst of blinks: Modem is being programmed/reprogrammed.

4 UNIGAS settings for PSTN communication

Some settings in UNIGAS are needed if it is to be used with the ISC230B and PSTN module. These settings may have been factory set.

4.1 UNIGAS 61 E

Service software CONVERTER TOOL, Communication Interface screen,
tab page *Schedule*

At interface (quit mode) tick

4.2 UNIGAS 300

ISC230B connected to optical port 1 of UNIGAS 300

Service software UNITOOOL, menu *System information*

UNITOOOL menu *Modem/Configuration*

C.93.12, Modem schedule set to module (0)

ISC230B connected to optical port 2 of UNIGAS 300

To use optical port 2 of UNIGAS 300 a module must be installed in UNIGAS 300 to activate port 2. Contact Wigersma & Sikkema if this is required.

No settings are needed.

5 Maintenance

The PSTN module does not require maintenance. For the maintenance of the equipment in which the modules are installed, please see the user manual for the equipment in question.

6 Technical specifications

- Approval Global approval, set for universal use in different countries, see "7 Countries".
- Status indicators Red LED for "Powered", "Online", "Programming", "Error" and "Ring".
- Connections RJ-11 and 20-pin angled socket.
- Operating temperature -40° to +85° C.
- Communication settings Local: 9600 baud, 8N1.
PSTN network: V.34 with V44 compression.
- Operating current Typical: 33mA @ 12V
Max: 36mA @ 12V
- Integrated modem unit MT5656RJ-L-34.R3-SP
- Forced error-check Yes

7 Countries

The PSTN module is set for use in the following countries

Austria	Hungary	Portugal
Belgium	Iceland	Romania
Bulgaria	Italy	Russia
Cyprus	Latvia	Slovakia
Czech republic	Liechtenstein	Slovenia
Denmark	Lithuania	Spain
Estonia	Luxembourg	Sweden
Finland	Malta	Switzerland
France	Netherlands	Turkey
Germany	Norway	United kingdom
Greece	Poland	

For setting to other countries or specific countries, please contact Wigersma & Sikkema.



Wigersma & Sikkema B.V.
Postbox 109
6980 AC Doesburg
Leigraafseweg 4
6983 BP Doesburg
TEL: +31 (0) 313 – 47 19 98
FAX: +31 (0) 313 – 47 32 90
info@wigersma-sikkema.com
www.wigersma-sikkema.com