



# GSM fault reporting device

## IT35G

## IT35G-VdS

## IT35G-OPC



# Operation manual

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# SAFETY INDICATION

Hardware and software of the IT35G are not fault-tolerant and have not been developed or made to be used or retailed as online control system in hazardous environments where error-free operation is mandatory, eg use in nuclear facilities, flight control, communication systems, air traffic control, direct life support equipment or weapon systems, for which a malfunction may cause directly death, physical injury or severe bodily harm ("High Risk Activities").

eviateg GmbH explicitly dismisses any specific or indirect warranty for the suitability for High Risk Activities.

The transmission of alerts and fault reports is carried out by the particular network provider and cannot be guaranteed in case of technical modifications in the transport network. For this reason cyclic routine messages should be programmed.

eviateg GmbH assumes no liability for technical inaccuracies and reserves the right to make modifications for the purpose of technical progress.

Modifications, errors and omissions excepted.



## Designated use

- The IT35G is intended for an operation with Safety Extra Low Voltage (SELV) according to EN 60950 / VDE 0805.
- Other equipment connected to the IT35G must meet the conditions of EN 60950 (Safety of Information technology equipment).
- The IT35G is a GSM fault reporting device which can be used as switchgear and controlgear too. An operation is only allowed with an appropriate installation.
- The IT35G is only provided for professional use and stationary installation in electric control cabinets.
- The installation has to comply with the electrotechnical rules.
- During switching on the IT35G all risks by controlled equipment, eg unexpected start up of motors or unforeseen switching of voltages, must be prohibited.

## Misuse

The IT35G must not be used as a security relevant control requiring error-free operation, eg. use in nuclear facilities, flight control, communication systems, air traffic control, direct life support equipment or weapon systems, for which a malfunction may cause directly death, physical injury or severe bodily harm.

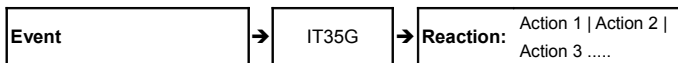
Unauthorised modifications, disassembling or changes to the product are disallowed.

For any consequence of misusing the IT35G the eviateg GmbH disclaims liability and all warranty claims expire.

# Functional principle

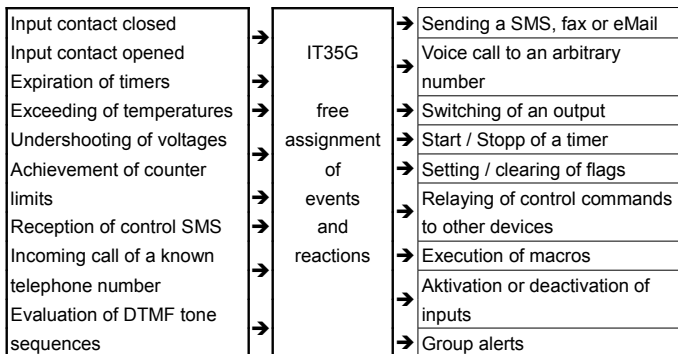
The IT35G works according to the principle of event and reaction:

- The device detects a multitude of events.
- To each event there is a reaction assigned which is executed each time the event occurs.
- The reaction is composed of single actions put into execution consecutively.
- In the delivery status all reactions are empty and the IT35G does not react to any event.
- Programming of the reactions can be done with the software „QuickSetup“ included in delivery.
- To utilise all features of the device the the configuration software „CONNY“ is also included in delivery.



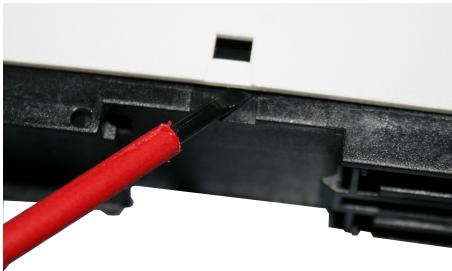
## Examples for events:

## Example for actions:



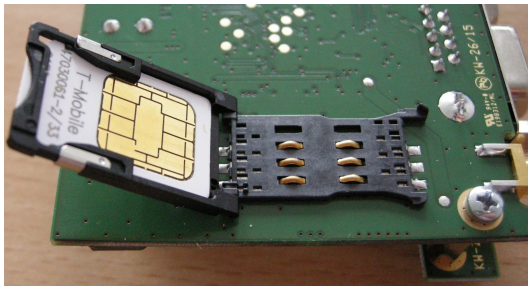
## Insertion of the SIM card

For insertion of the SIM card the IT35G enclosure must be opened. For that purpose the grey enclosure top part is carefully levered with a screwdriver from the bottom at the detents at both sides.

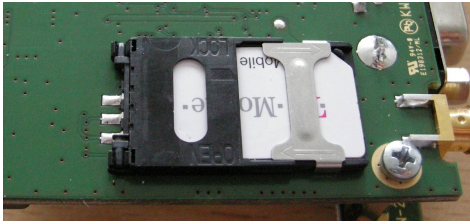


Picture 1: Levering the detent at the side of the IT35G

Afterwards the circuit board can be pulled out and the SIM card can be inserted.



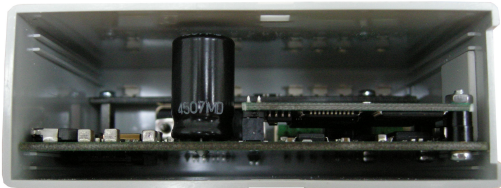
Picture 2: Position of the SIM card



Picture 3: Closed the SIM card and Lock

## Inserting the board into the enclosure

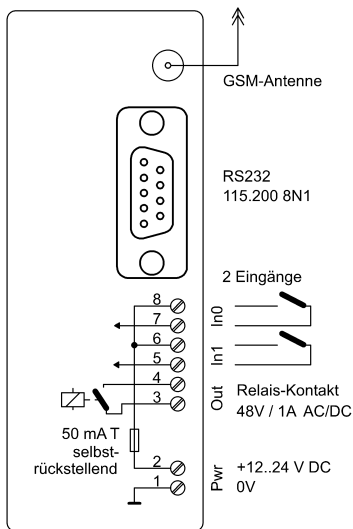
After insertion of the SIM card the circuit board is reinserted into the enclosure top part according to the following illustration.



Picture 4: Position of the circuit board in the enclosure top part

**CAUTION:** The circuit board must be inserted above the guiding slots. The SIM card is positioned in the left guiding slot.

# Block diagram



Picture 5: Block diagram of the IT35G

## Terminal connections

| Terminal | Marking | Description                                  |
|----------|---------|--|
| 1        | Pwr     | 0V Reference potential / signal common       |
| 2        | Pwr     | Power supply +12 to +24 V DC / 60 mA         |
| 3, 4     | Out     | Relais output (rating see „Technical Data“)  |
| 5, 6     | In0     | Optocoupler input 0, no potential separation |
| 7, 8     | In1     | Optocoupler input 1, no potential separation |

# Technical specifications

|   |  |
|---|--|
| Dimensions                                      | 94 mm (L) * 35 mm (W) * 76 mm (H)  |
| Weight  | 130 g  |
| Operating voltage                               | 12 bis 24 V DC   |
| Current consumption                             | max. 80 mA   |
| Service temperature                             | -20 °C to +55 °C   |
| Humidity  | 0 to 70%, non-condensing   |
| Degree of protection                            | IP20   |
| GSM modem                                       | Quadband 850/900/1800/1900 MHz   |
| SIM card  | Mini SIM (25 * 15 mm)  |
| Terminals                                       | 8 screw-type terminals 1.5 mm <sup>2</sup> / pluggable   |
| Inputs  | 2 switching inputs, max. input voltage 24 V DC   |
| Output  | Relais output 48 V<br>Max switching power: 60 W<br>Max switching current: 2 A 30 V DC / 1 A 48 V DC<br>Max switching voltage: 48 V AC/DC   |
| Serial interface                                | RS232 (115.200 bps / 8N1)  |
| Alarm events<br>(selection of supported events) | <ul style="list-style-type: none"> <li>• switching operation on inputs</li> <li>• expiry of internal timers or counts</li> <li>• incoming calls from known calling parties</li> <li>• evaluation of self-defined DTMF tone sequences</li> <li>• evaluation of password protected control SMS</li> <li>• loss of main power supply</li> </ul> |
| Fax and eMail                                   | transmission of fax and eMail per SMS (depending on the network and service provider)  |
| Number pool                                     | up to 256 numbers, groupable in up to 32 alert groups  |
| Message text pool                               | 10 text blocks per 512 bytes, macro capable  |
| Programming/update                              | via RS232 and GSM  |
| VdS 2465 protocol<br>(only IT35G-VdS)           | Version 03/1999, up to 10 VdS centrals, free programming of addresses / address extensions / priorities, free assignment of inputs to centrals   |



# Konformitätserklärung

gemäß der EMV-Richtlinie 2014/30/EU (elektromagnetische  
Verträglichkeit) vom 26. Februar 2014

Hiermit erklären wir, dass das Gerät

**IT35G** GSM-Störmeldegerät

in seiner Konzeption und Bauart sowie in der von uns in Verkehr  
gebrachten Ausführung den grundlegenden Sicherheits- und  
Gesundheitsanforderungen der EMV-Richtlinie 2014/30/EU entspricht.  
Bei einer mit uns nicht abgestimmten Änderung des Gerätes verliert  
diese Erklärung ihre Gültigkeit.

Zur Beurteilung herangezogene Normen:

- DIN EN 60950: 2011  
Elektrische Sicherheit informationstechnische Einrichtungen (ITE-Geräte)
- DIN EN 55 022: 2011  
Störaussendung informationstechnische Einrichtungen (ITE-Geräte)
- DIN EN 55 024: 2011  
Störfestigkeit informationstechnische Einrichtungen (ITE-Geräte)
- DIN EN 61000-3-2: 2010  
Störfestigkeit gegen statische Entladungen (ESD)
- DIN EN 61000-3-3: 2009  
Störfestigkeit gegen elektromagnetische Felder

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Norderstedt, den 05.01.2015



Thomas Plagens, Geschäftsführer

## Disposal instruction

The IT35G may neither be delivered at the collection points for the recycling of electrical or electronic equipment nor may it be disposed at a container which is collected from an electronic vendor for recycling purposes.

The device can be returned to the vendor or can be disposed by the user on his own cost in an environmentally compatible manner.

Norderstedt, 2016-04-14

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