

INTELI-HOUSE GSM-IH-01 Manual



INTELI-HOUSE Software

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1 Introduction

GSM-IH-01 is microcontroller based device used to quickly control your appliances via SMS messages. It features GSM modem SIMCom 800L which support s micro-sim card from your mobile operator. It has 8 outputs (4 internal and 4 external) which can be used to control up to 8 devices (heating or cooling system -thermostat functionality, lights, power sockets, garage door, plant watering system etc)

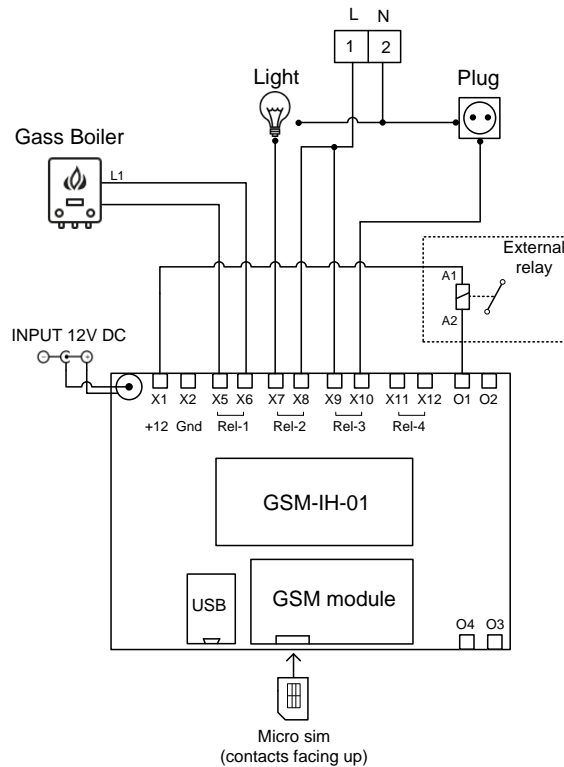
Housing supports DIN rail mounting so it can easily be mounted on any surface or inside various cabinets.

Features:

- Input voltage: 9-12V
- Input current: < 2A
- Temperature sensor DS1820
- Circuit protection -glass fuse 10A
- winter/summer mode tempmerature regulation
- 1 deditacted relay output for heating/cooling regulation (thermostat)
- 3 + 1 internal relay outputs (up to 10A load)
- 4 outputs for external relays (12V)

2 Installation

INTELI-HOUSE GSM-IH-01 (schematic and wiring example)



Example

- Rel-1 – Thermostat function of relay 1
- Rel-2 – Light bulb connection
- Rel-3 – Plug connection
- O1 – external power relay (in example ironing station -20 A)

- X1...X2 – power supply (12VDC external)
- X5...X12 – internal relays (10A)
- O1...O4 - ext. relays (not included)

To enable the device, put the micro SIM card (from your mobile service provider) inside. SIM card should have PIN removed to work properly. Then you are ready to send following SMS command messages.

3 SMS Message instruction set

Following commands are supported and sent via regular sms message with user mobile phone. On each sms command message, device responds with specified sms response message.

3.1 Status and and reset commands

- **status** - get status of the device, (example response: **heat.off t=22,0C**)
- **f.reset** - factory reset to original settings (response: **f.reset.ok**)
- **restart** - restarts the device (response: **restart.ok**)

3.2 Thermostat functions

Following command are used when you use device as thermostat. To enable thermostat functions user first command in the list (**heat.on=XX.X**)

- **heat.on=XX.X** (for ex. **heat.on=22.0**)- enable thermostat function and set temperature to 22.0 °C, relay 1 is used (response: **heat.on**)
- **heat.off** - disable thermostat function, relay 1 is free for other use (response: **heat.off**)

- **hysteresis=XX.X** (for ex. **hysteresis=1.0**) - enable hysteresis function of the thermostat(response: **hysteresys.ok**)
- **hysteresis=off** - disable hysteresis function (response: **hysteresys.deleted**)

- **offset=XX.X** (for ex. **offset=1.0**) - enable temperature correction (offset) of the thermostat(response: **offset.ok**)
- **offset=off** - disable temperature correction of the thermostat (response: **offset.deleted**)

- **nr.set=x** (for ex. **nr.set=+395990000000**) - set the number for alarm notification (response: **nr.set.ok**)
- **nr.set=off** - remove the number for alarm notification(response: **nr.set.deleted**)

- **alarm.high=XX.X** (for ex. alarm.high=30.0) - enable thermostat alarm for high temperature (response: **alarm.high.ok**)
- **alarm.high=off** - disable alarm high function (response: **alarm.high.deleted**)

- **alarm.low=XX.X** (for ex. alarm.high=30.0) - enable thermostat alarm for low temperature (response: **alarm.low.ok**)
- **alarm.low=off** - disable alarm low function (response: **alarm.low.deleted**)

3.2.1 Summer mode function

If you use device for cooling operation, then output for relay 1 should be inverted

- **heat.invert.on** - enable summer mode (cooling function), relay 1 is inverted on temperature setpoint (response: **heat.invert.on**)
- **heat.invert.off** - disable summer mode (cooling function), relay1 is not inverted (response: **heat.invert.off**)

3.3 Direct output functions

3.3.1 Internal relays

- **do1.on** -set relay 1 output to on state (response: **do1.on**)
- **do1.off** -set relay 1 output to off state (response: **do1.off**)
- **do2.on** -set relay 2 output to on state (response: **do2.on**)
- **do2.off** -set relay 2 output to off state (response: **do2.off**)
- **do3.on** -set relay 3 output to on state (response: **do3.on**)
- **do3.off** -set relay 3 output to off state (response: **do3.off**)
- **do4.on** -set relay 4 output to on state (response: **do4.on**)
- **do4.off** -set relay 4 output to off state (response: **do4.off**)

3.3.2 External relays

- **do5.on** - set output 5 (external relay) to on state(response: **do5.on**)
- **do5.off** - set output 5 (external relay) to off state (response: **do5.off**)

- **do6.on** - set output 6 (external relay) to on state(response: **do6.on**)
- **do6.off** - set output 6 (external relay) to off state (response: **do6.off**)

- **do7.on** - set output 7 (external relay) to on state(response: **do7.on**)
- **do7.off** - set output 7 (external relay) to off state (response: **do7.off**)

- **do8.on** - set output 8 (external relay) to on state(response: **do8.on**)
- **do8.off** - set output 8 (external relay) to off state (response: **do8.off**)