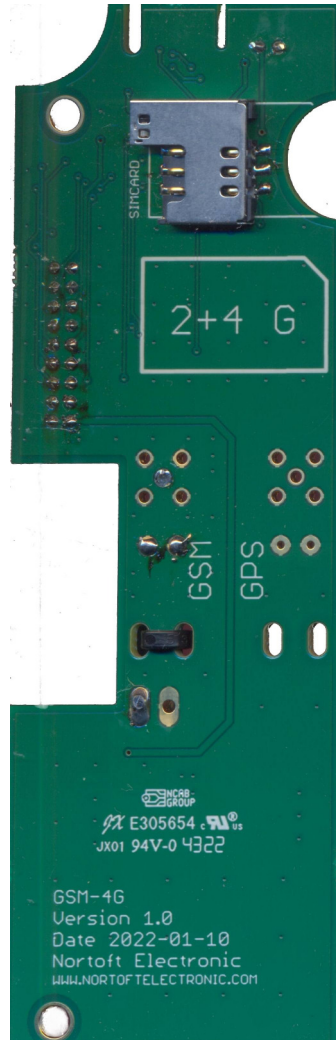


## GSM-4G



### Features

Easy mount on PR10-12  
Low power consumption  
Total PR10-12 og GSM-4G  
10 mA GSM  
10 mA GSM + GPS ( Only GPS on request )  
Visible LED for Status

### Includes

Antennas with 2 meter cable.  
All fittings for mounting.

### Modem

- SIMCOM 7070G
- GSM 850/900/1800/1900MHz
- Cat-M/Cat-NB
- GPRS/EDGE
- GPS, Galileo & GLonass

- Temperature: -40°C ~85°C

GSM-4G

## GSM

GSM-4G is a GSM modem made for PR10-12.

Irrigator, can be Started, Stopped, or requested for status, only by sending an SMS.

Likevise using GPS, machine position can be tracked.

\*Optional program using maps

## Commands

**Start** Starts machine.  
**Stop** Stops Machine  
**Speed ###** Set the **Speed** whitin 3..400 m/h. eg.: **Speed 24**  
**Status** Gets the current status of machine.

SMS can be typed in both upper- or lower case or mix.

If you call the modem, from a GSM telephone, you will recieve an SMS containing **Status**

## Status

|                             |         |
|-----------------------------|---------|
| <b>SPEED</b>                | 30.0m/h |
| <b>DOSE</b>                 | 22 mm   |
| <b>TIME 14:10 STOP18:16</b> |         |
| <b>STATUS</b>               | Running |
| <b>DISTANCE</b>             | 123m    |
| <b>BATTERY</b>              | 12.8V   |
| <b>CHARGE ON</b>            | 0.231A  |

SMS, Sent by PR10, contains information about Irrigation

SMS is sent on:

|                   |  |
|-------------------|--|
| LOW PRESSURE:     | Start the pump, so you get pressure on the machine.  |
| STOP SENSOR:      | The machine is ready to be moved to a new field.   |
| STOP REMOTE:      | The machine is stopped using SMS   |
| STOP DISTANCE:    | The machine has reached stop point. (Constant 8 )  |
| SUPERVISION TIME: | The machine has not moved, for nn minutes ( Constant 4 ), due to a malfunction. Check the machine before continuing. |

## How to get started:

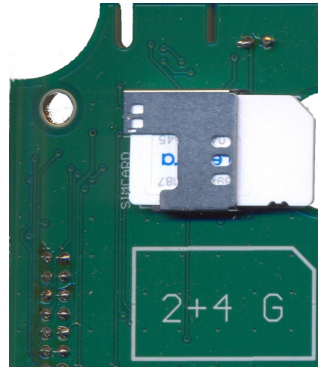
Disconnect Electronic from Battery.

Put in the SIM card into an ordinary mobile phone and change the pin code to 1111.

Try to send at receive an SMS, on phone, to verify the SIM card and account is working properly.

Mount the modem on PR10-12 using the treaded spacers.

Insert the SIM card into the modem.



Connect power connector.

Connect the power and setup machine data #30

0 = GSM Disabled

1 = GSM Enabled, all telephone number is allowed.

2 = GSM Enabled, only telephone number on SMS list.

|               |                 |
|---------------|-----------------|
| <b>SPEED</b>  | 11.1m/h         |
| <b>DOSE</b>   | 22 mm           |
| <b>TIME</b>   | 14:10 STOP 7:43 |
| <b>M.DATA</b> | 30 1            |

See manual for changing machine data.

If selected numbers are used, number could be found in display on PR10 when receiving SMS from actual phone. Number should always be entered in the same format eg. +44213.. 0044213.. 213..

|              |                 |
|--------------|-----------------|
| <b>SPEED</b> | 11.1m/h         |
| <b>DOSE</b>  | 22 mm           |
| <b>TIME</b>  | 14:10 STOP 7:43 |
| <b>A:</b>    | +45123456       |

See manual for changing machine data.

After Approx. 30-45 seconds moden should be connected to network.

|                |           |            |    |          |
|----------------|-----------|------------|----|----------|
| <b>SIGNAL</b>  | 23        | <b>SAT</b> | 12 | <b>+</b> |
| <b>NETWORK</b> | HOME      |            |    |          |
| <b>A:</b>      | +45123456 |            |    |          |
| <b>B:</b>      | +45234567 |            |    |          |

Signal strength, 0 – 31, and network should show up in display menu #6

A Signal strength at 10 og higher to work properly.

A Signal strength at 99 indicates signal error.

SAT Numbers of satellites visible for position.

When data,

‘ ‘ No data connection ( SIMCARD )

– or + for data Connection To internet server.

GSM-4G

Modem has a LED showing status, the LED is visible through the front panel.



| <b>GREEN</b>   | <b>LED</b> |
|--|------------|
| POWER DOWN   | Off        |
| <ul style="list-style-type: none"> <li>- Network search or</li> <li>- no SIM card is inserted</li> <li>- no PIN is entered</li> <li>- no GSM network is available</li> </ul> | On         |
| STANDBY<br>(registered in the network)   | Flashes    |
| Connection (TALK)  | On         |

When an SMS is Received, following is showed on Display:

**Receiving SMS**  
**#: +45123456**  
**Status**

Receiving SMS, Incoming phone number and 40 character of message, Any SMS can be received, but only known commands are accepted.

When an SMS is Sent, following is showed on Display:

**Sending SMS**  
**#: +45123456**  
**Status Running**

Sending SMS, Outgoing phone number and current machine status.