## Installation

1. Prepare a SIM card so that the PIN code is 1234 or is deactivated. Mount the card in the unit. The unit has now 1234 as password or runs without a password. The card must be placed as shown below.

2. Connect inputs, outputs and power cable (230V/12-24V AC/DC) and if necessary a rechargeable 9V battery.

3. Turn on the power. A red diode is lit. After approx. 20 sec. the diode flashes approx. every 2 sec., and the unit is ready.

The GSM unit interior
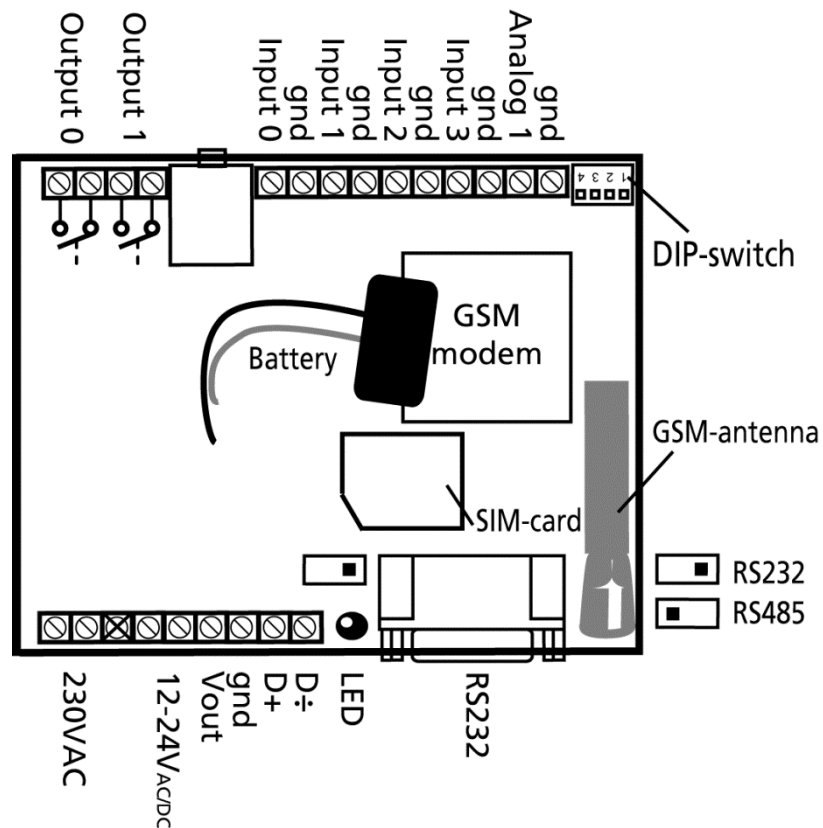
DIP-switch for analog input		Voltage	
1 ON:	0-10 VDC	Output:	AC max. 230 VAC, 6A
2 ON:	0/4-20 mA		DC max. 30 VDC, 6A
3 ON:	PT-100	Input, digital:	max. 24 VDC
4 ON:	Profort probes		max. power 2 mA
All OFF:	digital input	Input, analog:	max. 0-10 VDC
			Only print voltage when
			The DIP-switch 1 is on, and 2-4
			are off

www.profort.com

Set-up on PC via the Internet

1. Open browser on your PC, tablet or smartphone.

2. Type http://setup.masterview.dk in the address bar. Log in to the portal or sign up as user. An unlimited number of units can be added to the same users and several users can be added to the same units.

3. Add a new unit in the list and choose masterUnit 241 as the unit. When you press SAVE the portal sends a text message to the unit and thereby connects it to the Profort server via GPRS/Internet on the SIM card. The USERNAME of the unit becomes its telephone number (if you wish to control the unit via the Profort app). All further set-up will now be sent as data.

4. Fill in the required information and press 'send and save'

5. The unit is now ready.

Additional help: See the manual on www.profort.com

Set-up with text message

1234 = password, 0 = zero, space counts as a character and is therefore important. Do not fill in password if PIN is disabled on SIM-card

Define the unit phone number and change password, if necessary	`1234 N0 88888888 yyyy ID-TEXT` (N0 = N + zero)	1234 = current password, N0, 88888888=mobile number of the unit. Alternately yyyy=new four-digit password. Alternately ID-text: First text in all messages from the unit (max. 32 characters).

Receivers
Add
	`1234 N1 11111111 1234`
	
	`1234 N2 11111111 *`
		Adds receiver 11111111 in space no. 1 to receive alarm as text message.
		
		Adds receiver 11111111 in space no. 2 to receive alarm as telephone call with tones.
		
		Additional spaces (25 total):
		
		N2..N9, NA (10), NB (11) .. NP (25),.

Delete	`1234 N1`	Deletes receiver in space no. 1

Text on input
Add
	`1234 A0 BREAK TEXT`
	
	`1234 L0 END TEXT`
		TEXT on input 0 by open/break. (A0..A3)
		
		TEXT on input 0 by close/make. (L0..L3)

Delete	`1234 A0`
	
	`1234 L0`
		Deletes TEXT for input 0 by open/break.
		(A0..A3)
		
		Deletes TEXT for input 0 by close/make. (L0..L3)

Only alarm if text is added	`1234 CT`	The unit ignores input that has no text attached.
Add analog input 1	`1234 V1 S yyyy zzzz`	Set-up of the scale (yyyy = zzzz) 0-10 V (DIP-switch 1=ON) `0 10` 0-20 mA. (DIP-switch 2=ON) `0 20` 4-20 mA. (DIP-switch 2=ON) `-5 20` PT100. (DIP-switch 3=ON) `-309 115` Profort PTC. (DIP-switch 4=ON) `-132 63`
Add 2: Alarm points	`1234 V1 M 5 30`	The unit sends alarm e.g. when temperature passes 5 and 30 degrees C.
Add text in LOW interval	`1234 V1 A LOW TEMP`	Alarm text in LOW interval (below 5 degrees C.)

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Add text in MEDÌUM interval	`1234 V1 L NORMAL TEMP`	Alarm text in MEDIUM interval (between 5 and 30 degrees C.)
Add text in HIGH interval	`1234 V1 B HIGH TEMP`	Alarm text in HIGH interval (higher than 30 degrees C.)
Activate output in case of alarm	`1234 G1`	(G1 = 10 secs., G2 = 20 secs., G3 = 30 secs., G4 = 1 min, G5 = 2 mins, G6 = 4 mins, G7 = 8 mins, G8 = 16 mins og G9 = constant.) Sets the relay output to activate in case of alarm on an input. Output is determined by zone.
Output follows state on input	`1234 GA`	Indicates that the output follows the corresponding input if text is added. Notice: input signal has higher priority than command S0 (S + zero) and B0 (B + zero)
Deactivate output in case of alarm	`1234 G0`	Output is not activated in case of alarm (G+null)
Add macro 0 for return of temperature	`1234 M0 TEMP <V1 R>`	The unit returns value on analogue 1 (e.g. temperature) when a text message with the word 'TEXT' is sent ('1234' omitted in macros). If using the Profort app, the macro names are shown as buttons in the app.

Additional help: see the manual on www.profort.com

Control with call from telephone

Call the unit. Press 1234 (password) when the connection has been established and await two 'beeps'. Enter the desired code and hang up.

Examples of codes:

*00 (asterisk + zero + zero)	Pulses output 0 for 10 sec. (*01 for output 1)
*10 (asterisk + 1 + zero)	Breaks output 0 (*11 for output 1)
*20 (asterisk + 2 + zero)	Closes output 0 (*21 for output 1)
0	Performs macro 0 (1-9 for macro 1-9)

If # is pressed after tones are played, the subsequent persons in the call list will not receive an alarm.

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CONTROL

Control with text message

Connect/disconnect the unit	1234 ON	Inputs are activated, red diode flashes
	1234 OF	Inputs are deactivated, red diode turns off
Activation of output x	1234 S0	Closes output 0. (S0..S1)
	1234 B0	Breaks output 0. (B0..B1)
	1234 P0	Pulses output 0 for 10 secs. (P0..P1)
Download	1234 OK	Downloads information about GSM transmission power and battery level Example: OK>>OK SQ: xx% xx = transmission power in percentage. 25 % is least acceptable value
	1234 V1 R	Downloads measurements on analogue input 1
Connection to the Internet	1234 EH USERNAME	GPRS traffic starts (USERNAME=the telephone number of the unit, e.g. 20257023)
	1234 EH	GPRS traffic stops

Additional control

The unit can also be controlled by use of the PC program and all functions can be controlled directly from the internet.

See more in the manual or log on to internet management via www.profort.dk

www.profort.com

Power supply

230V AC min. 0,1A
12-24V AC/DC min 0,5 A

NB! Supply must not come into contact with the ground.

Usage

Approx. 30 mA when resting (supplied with 12 V)
5 W supplied by 230 V

Output

Max. 6 A at 230V AC
Max. 6 A at 35V DC

10VDC supply. Max 100 mA.

MOD-bus / RS485 (D+, D-, gnd)

Inputs, digital

Max. 1V, 2 mA (GND)
Min. 18V max 30 V (24V DC)

Input, analog

0-10V DC
0/4-20mA
PT-100
Profort temperature sensor (Profort-no. 007995)

Pulse- and minute counter

Max. 10Hz. 6 numbers (Input 1=pulse/minutes, input 2+3=pulse)

Dimension

6 DIN-modules
114x86x57 mm
Vægt: 290 g.

Temperature

– 20 °C - +55 °C

Antenna

1 internal antenna for GSM-modem 2G+3G. Possible to add external antenna (Profort-no. 369003)

GSM unit – 4 modules

- 1 relay output
- 3 digital inputs
- 1 analog inputs
- 12-24 V AC/DC power supply (acquisition)
- 3,6 V Li-ion back-up battery (acquisition)
- DIN-rail, four modules

GSM unit with wireless

- 8 relay outputs
- 1 analog output 0-10V
- 8 digital inputs
- 4 analog inputs
- Wireless modem 868 MHz (acquisition)
- 230V/12-24V power supply
- 9V rechargeable back-up battery (acquisition)
- RS232-port for pc or PLC
- IP-65 box
- Display
- IR output for external IR-sender (acquisition)

GSM unit – 9 moduler

- 4 relay outputs
- 8 digital inputs
- 2 analogue inputs
- 230V/12-24V 3,6V Li-ion back-up battery (inclusive)
- 9V rechargeable back-up battery (acquisition)
- DIN wall mount modules

IP-65-box for GSM unit

- Waterproof box
- DIN-rail for 9 modules
- 3 PG-inputs

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