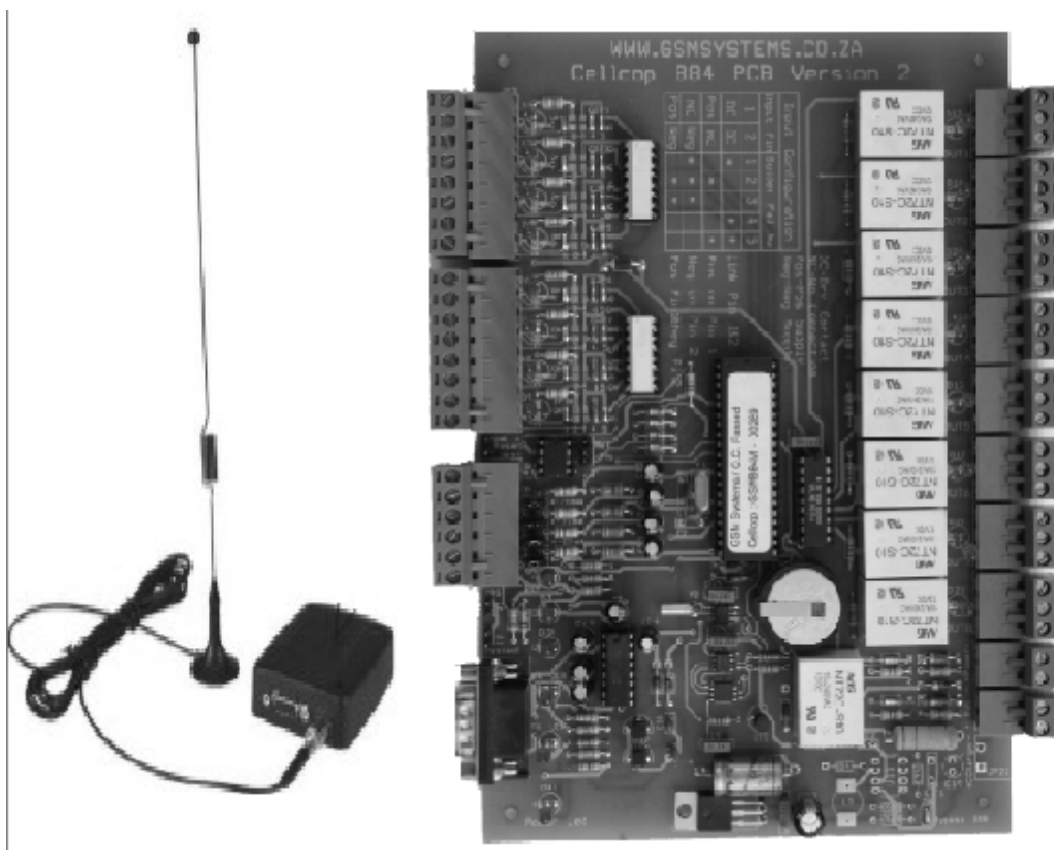


Cellcop Communicator Modem Version Manual

Feb 2008



ABOUT THE GSM COMMUNICATOR SYSTEM

The GSM communicator system is based on GSM SMS technology. It uses a GSM Modem for communication and is designed to provide you with flexibility and convenience. Read this manual carefully and have your installer instruct you on the system's operation and on which features have been implemented in your system. All users of this system should be instructed on its functions.

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1. Features

Digital Inputs to communicate alarm conditions

- Each input can be triggered to send an SMS to up to 16 Cellphone numbers
- The time delay before the SMS is send can be set for each input
- Separate messages can be configured for On and Off states of the input signal
- Messages to be send can be programmed by the user
- On or Off states can both be reported to predefined cellphone numbers.
- Reporting can be disabled for an input
- The states of the inputs can be requested from the unit by SMS

Outputs to control any electrical device

- Outputs can be controlled by cellphone using SMS (Switching the output on, off or pulse)
- The duration of the pulse can be programmed for each output
- Outputs can be set to follow the state of an input
- Output can be set to switch on when the unit is dialed
- Status of an output can be requested from the unit by SMS

Analog inputs to monitor volume, temperature, etc. (Only on Cellcop884M)

- Each analog can be triggered to send an SMS to up to 16 cellphone numbers
- The analog value where the SMS is send can be configured.
- Separate messages can be configured for High and Low level alarms.
- Messages to be send can be programmed by the user
- High or Low alarm messages can both be reported to predefined cellphone numbers.
- Reporting can be disabled for an analog
- The value of an analog can be requested from the unit by SMS

Monitor AC power using the cell phone charger as input

- AC power can be monitored by monitoring the cellphone charger state
- SMS can be send to up to 16 numbers when a power failure occur and when the power return

Monitor AC power using the charger input

- AC power can be monitored by using the charger input.
- SMS can be send to up to 16 numbers when a power failure occur and when the power returns

Monitor the battery status

- The battery status can be monitored by the system.
- SMS can be send to up to 16 numbers when the battery is faulty.
- The battery is monitored by disconnecting it from the main supply and to measure the battery voltage while connected to a load.

Timed events

Timed events can be configured to control outputs, Switch Monitor modes, etc.

Event logger

The system can be setup to log events on the board.

Run Meter on all inputs

All inputs can be configured as run meters. Input 1 can control monitoring on other inputs. The run meter increment when the corresponding input is on.

Monitor control using Input 1

Input 1 can be used to control if an input or analog should be monitored.

Monitor modes

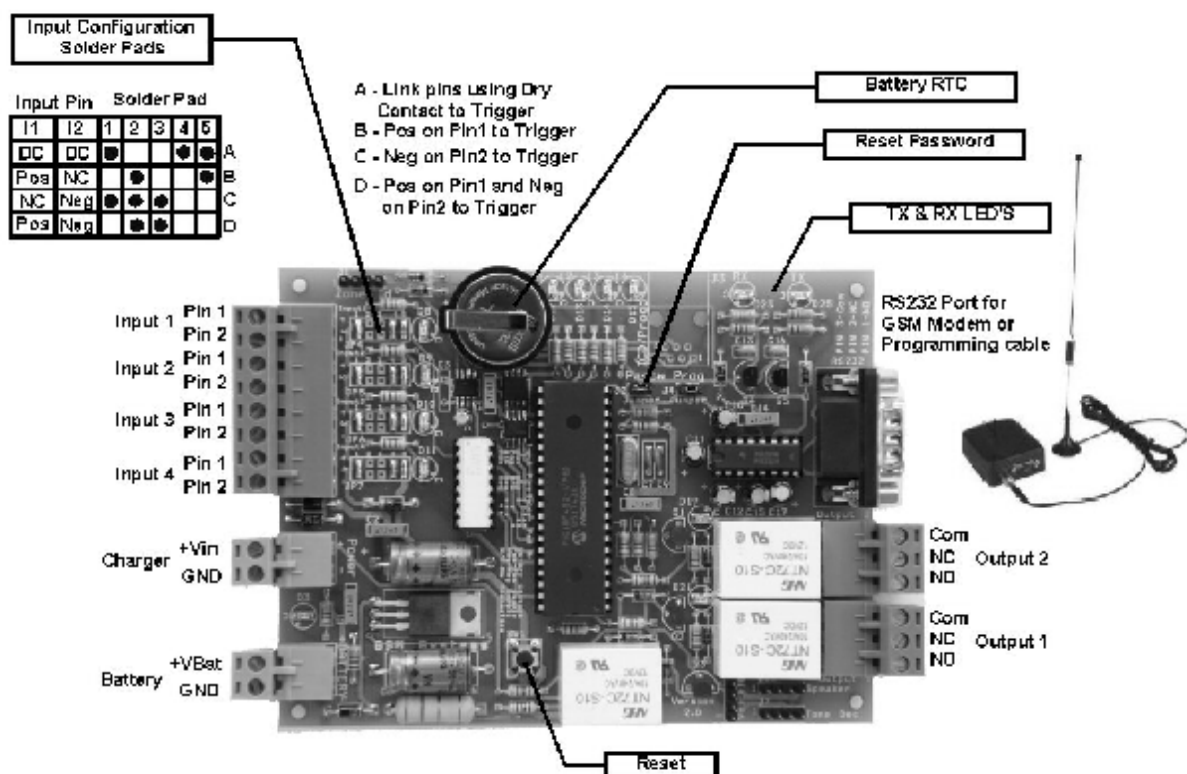
Different monitor modes are implemented to enable different monitor setup.

Local and remote configuration of the unit

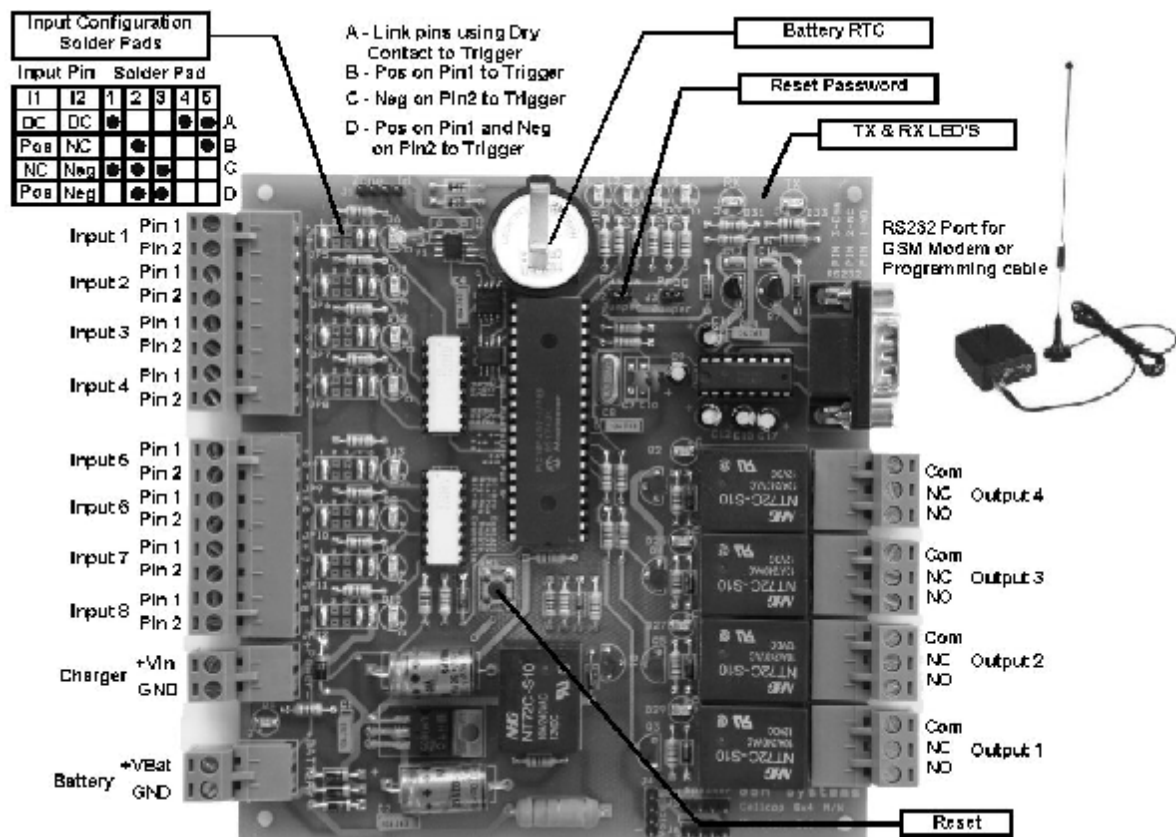
- The units parameters can be configured with the supplied configuration software
- Configuration can be done locally using a program cable or remotely using a modem

2. Cellcop communicator models

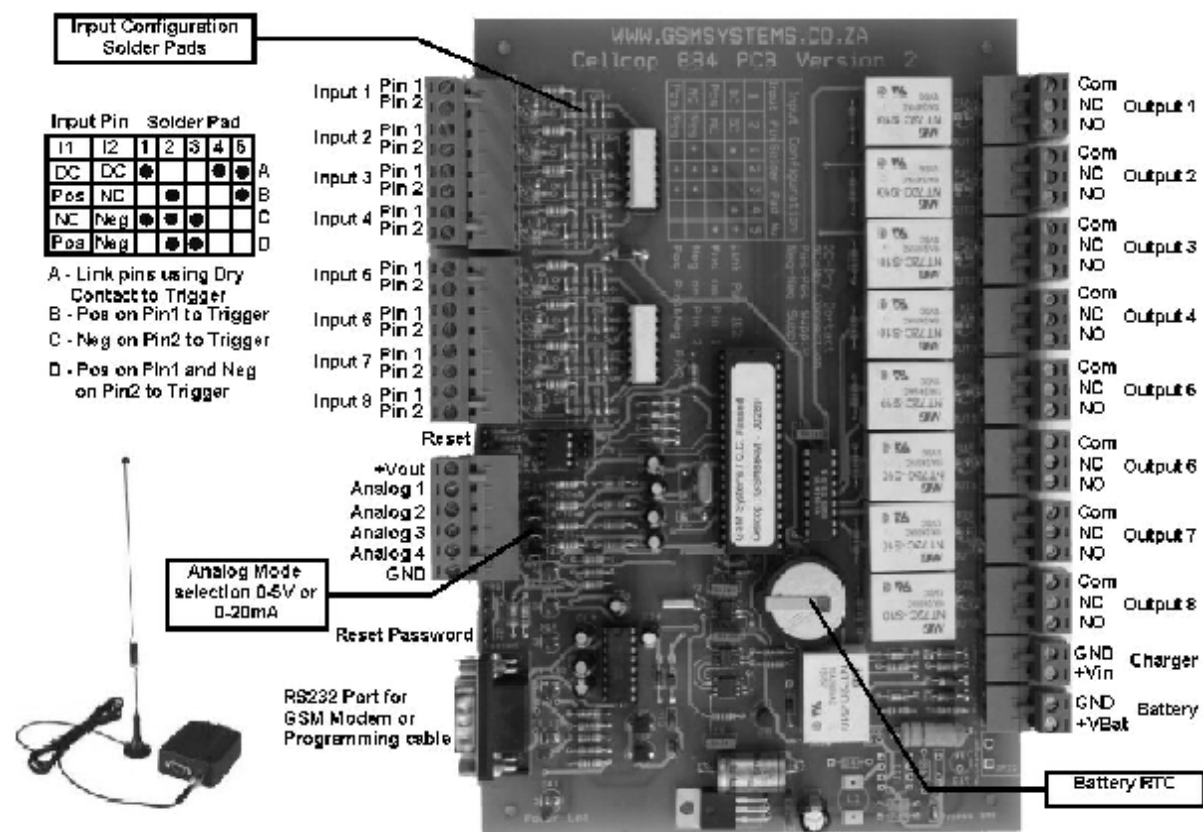
2.1 Cellcop 42M (4 inputs and 2 Outputs)



2.2 Cellcop84M (8 Inputs and 4 Outputs)



2.3 Cellcop 884M (8 inputs, 8 Outputs and 4 Analogs)



3. Operation of the GSM communicator

3.1 Setting up the Unit for operation

The following steps should be followed to use the GSM communicator

3.1.1 Wire up the inputs to sensors

The inputs can be wired up in various configurations.

The inputs can be setup to be used in various configurations by soldering the solder tags correctly.

Solder tag configuration:

Input configuration using the solder pads
Input Pins Solder pad Number

1	2	1	2	3	4	5
DC1	DC2	*			*	*
Pos	N/C		*			*
N/C	Neg	*	*	*		
Pos	Neg		*	*		

DC – Dry contact (Switch or relay)

Pos – Positive of the supply

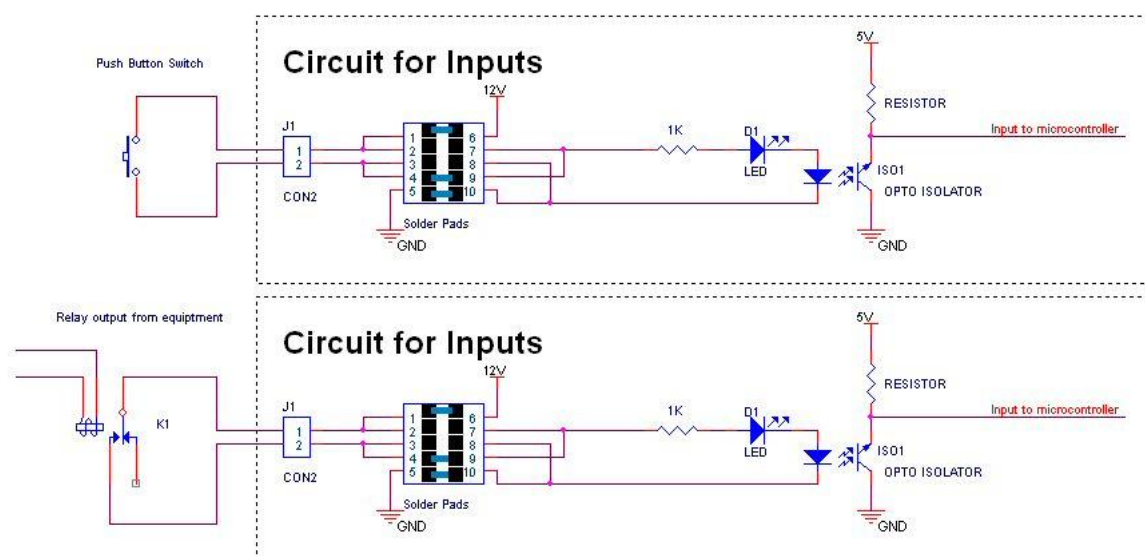
Neg – Negative of the supply

N/C – No connection

Configuration 1 (Dry Contact)

Solder pads 1,4 and 5 must be soldered.

Dry Contact Inputs

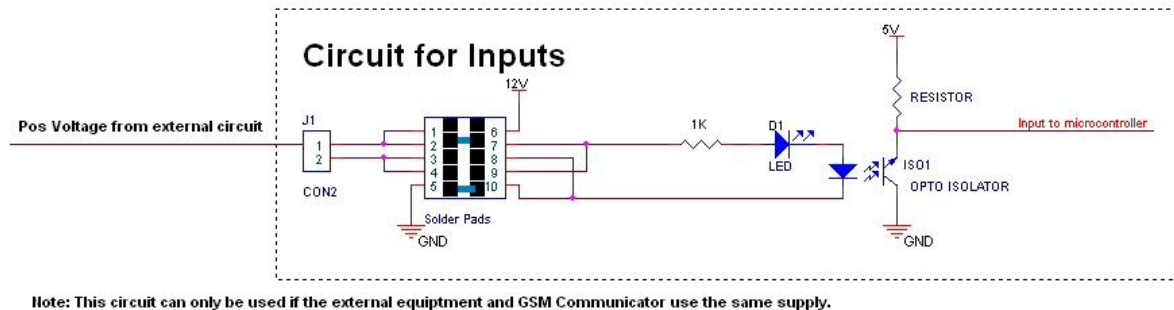


If the switches are closed the corresponding Input will go on and SMS will be send to the configured telephone numbers.

Configuration 2 (Pos on pin 1 N/C on pin 2)

Solder pads 2 and 5 must be soldered.

Pos Supply on Input

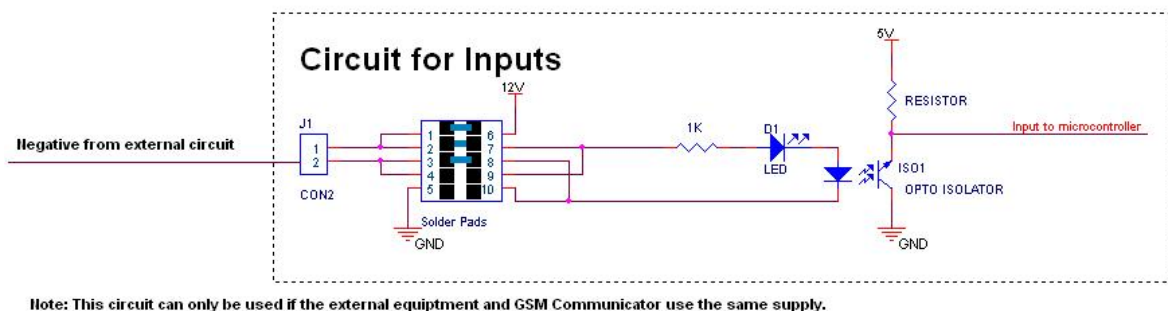


If a common supply is used then a positive from the alarm circuit can be used to trigger the unit.

Configuration 3 (N/C on pin 1 Neg on pin 2)

Solder pads 1,2 and 3 must be soldered.

Pos Supply on Input

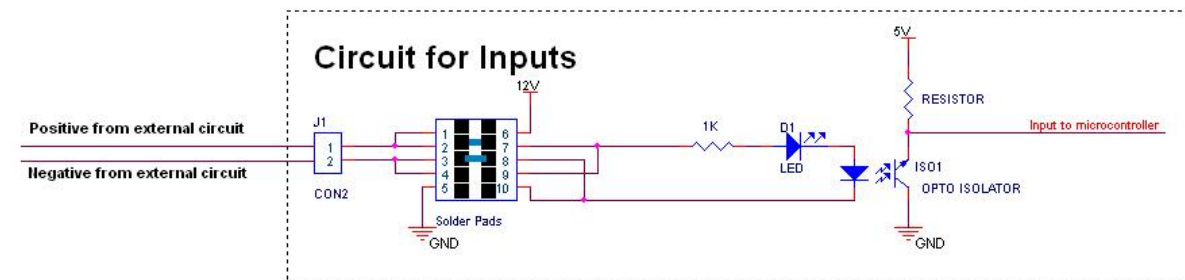


If a common supply is used then a negative from the alarm circuit can be used to trigger the unit.

Configuration 4 (Pos on pin 1 Neg on pin 2)

Solder pads 1,2 and 3 must be soldered.

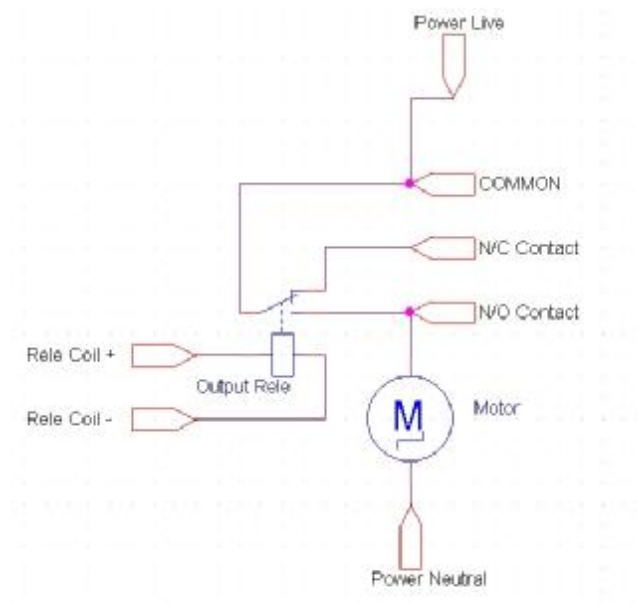
Pos Supply on Input



No common supply. Positive and negative is supplied from external alarm circuitry.

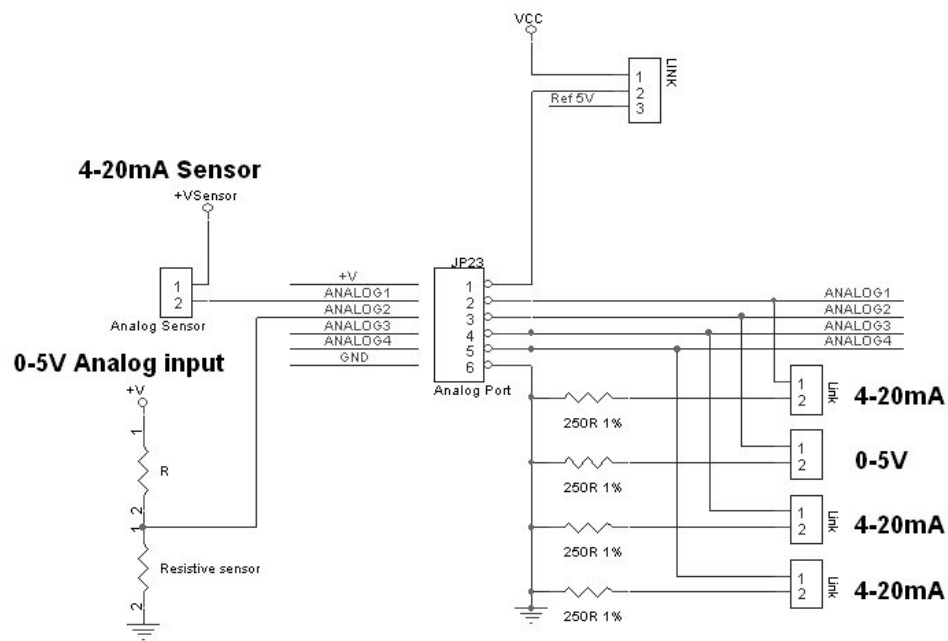
3.1.2 Wire outputs to devices to be controlled

The outputs are isolated rele outputs and are able to switch 240 VAC 10 A. The relay output are available on the terminals.



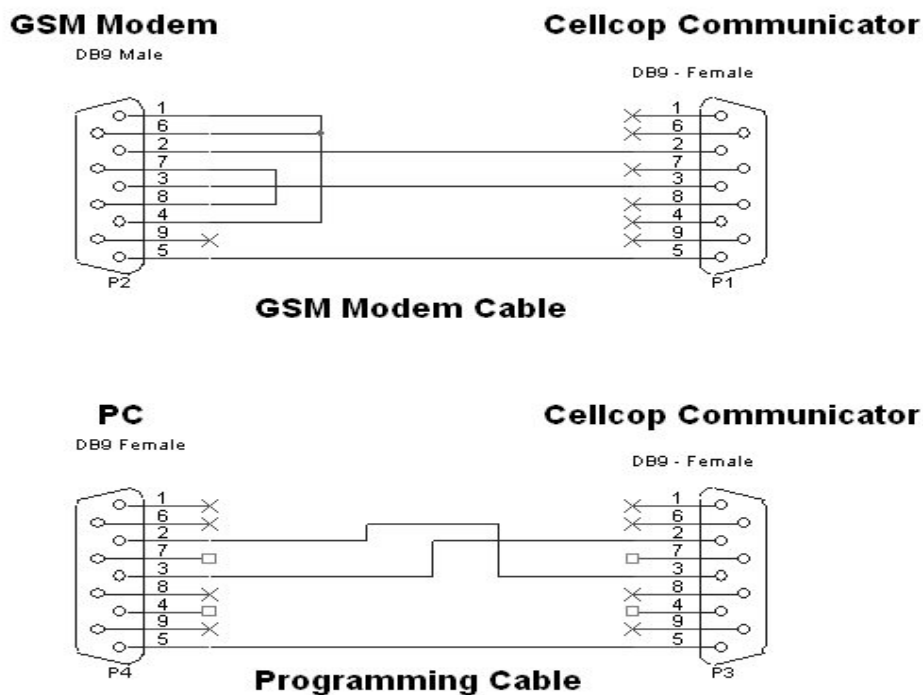
Output used to switch on a motor using less than 240VAC and 10A current

3.1.3 Wire Analogs for monitoring



The analog input can be either 0-20mA or 0-5V. If the link is connected the 0-20mA option is selected. The 250 ohm resistor will convert the 0-20mA to a voltage of 0-5V. The communicator use a 10 bit A/D converter and the value of 0-5V will correspond to a value of 0-1023 in the communicator.

3.1.4 Connecting the modem / PC



3.1.5 Connecting the power supply

A 13.8 V 1A power supply should be connected to the Charger input while a 12V lead acid battery should be connected to the battery input.

3.1.6 Programming the GSM Communicator

Cable programming:

1. Connect the Cellcop unit to the PC using the RS232 cable
2. Power-up the Cellcop 8x8x4M using a 12 V DC supply.
3. Run the supplied programming software

The following window will appear :

Cellphone Numbers :

1: Name1	9: Name9
2: Name2	10: Name10
3: Name3	11: Name11
4: Name4	12: Name12
5: Name5	13: Name13
6: Name6	14: Name14
7: Name7	15: Name15
8: Name8	16: Name16

Service Center Number : +27831000002

Com Port Setup

Enable Comms

Connected

Run Meter Password : 98765

Send status SMS every 24 Hours running to:

Log running event every 1 Hours running

Read Run Meter

Set Run Meter

When input 1 is off disable monitoring on:

Inputs: 2 3 4 5 6 7 8

Analogs: 1 2 3 4

Program SMS Communicator

Cellphone Number :

Read SMS Communicator

Disconnect

Connect to remote Unit

Select the serial port that the Cellcop8x4N is connected to using the Com Port Setup
Click on the Enable Comms button to enable the communications
Click the read SMS communicator button to read the information from the GSM communicator

Change the information and parameters to fit your setup

- Service Center Number
- Cellphone Numbers and names
- Input Parameters
- Output Parameters
- Analog Parameters
- Logger Parameters
- AC Power monitor parameters
- Etc.

4. Click "Program SMS Communicator button" to program your setup into the unit
5. Switch of the power
6. The unit is now ready for installation

Remote Programming:

1. Connect a Cell Modem to the PC using a serial cable.
2. Start the programming software
3. Select the correct serial port where the Cell Modem is connected.
4. Enable communications
5. Enter the number for the unit that must be programmed
6. Press the "Connect to remote site" button
7. When connect LED is green program same as cable programming.

Note: The password that is programmed on the board must be used or it will not accept programming messages. The password can be changed using cable programming. If the Reset password link is closed before the board is powered then the password will be reset to 12345.

4. Programming Parameters

4.1 Service Center Number :

Service Center Number :

+27831000002

MTN : +27831000002 Pay as you go : +27831000113

Vodacom : +27829119 or +27829129

4.2 Cellphone Numbers and names:

Cellphone Numbers :	
1: Piet Pompies +27831235555	9: Name9
2: Koos Koekemoer +27821235555	10: Name10
3: Willem +27841235555	11: Name11
4: Name4	12: Name12
5: Name5	13: Name13
6: Name6	14: Name14
7: Name7	15: Name15
8: Name8	16: Name16

4.3 Input parameters:

Example 1 :

Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8																																
<div>Input 1 - Activated</div> <div>Text message to send when activated : <input checked="" type="checkbox"/> Enabled</div> <div>Alarm Signal on <input type="text"/> On time to Activate [Half second Units] : <input type="text" value="20"/></div> <div>Send text message to the following Cellphone Numbers :</div> <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr><tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table>								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<div>Input 1 - De-Activated</div> <div>Text message to send when de-activated : <input checked="" type="checkbox"/> Enabled</div> <div>Alarm Signal off <input type="text"/> On time to Activate [Half second Units] : <input type="text" value="1"/></div> <div>Send text message to the following Cellphone Numbers :</div> <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr><tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table>								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																								
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Input 1 is setup to send a SMS containing text “Alarm Signal on” to Cell phone number 1,2 and 3 only if the input 1 was on for 10 seconds. A SMS containing text “Alarm Signal off” will be send when Input 1 go Off to Cellphone number 1.

Example 2 :

Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8																																
<div>Input 2 - Activated</div> <div>Text message to send when activated : <input checked="" type="checkbox"/> Enabled</div> <div>Dam is vol <input type="text"/> On time to Activate [Half second Units] : <input type="text" value="1"/></div> <div>Send text message to the following Cellphone Numbers :</div> <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr><tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table>								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
<div>Input 2 - De-Activated</div> <div>Text message to send when de-activated : <input checked="" type="checkbox"/> Enabled</div> <div>Dam is leeg <input type="text"/> On time to Activate [Half second Units] : <input type="text" value="1"/></div> <div>Send text message to the following Cellphone Numbers :</div> <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr><tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table>								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Input 2 will send an SMS to Cell numbers 1 and 2 when Input 2 go on containing the text “Dam is vol” and it will send an SMS to Cell numbers 1 and 3 when Input2 go off containing the text “Dam is leeg”

4.4 Output Parameters:

Setup Outputs		Other Parameters		Outputs Control Text		Battery Condition									
Output	1	Output	2	Output	3	Output	4	Output	5	Output	6	Output	7	Output	8
Default State	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse Timer	100	50	10	4	4	4	4	4	4	4	4	4	4	4	4
Mode Normal		Mode A		Mode B											
Invert Inputs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
Input 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
Input 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
Input 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
Input 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
Input 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Input 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Input 7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Input 8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Voice Call Trig	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Fax Call Trig	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Pulse Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>								
Mode Change	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Toggle Output	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Call Trig	1	2	3	4	5	6	7								
Numbers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

Then buttons on the top of the page is test buttons to switch the outputs while the cellcop board is connected to the configuration software. The default state is the state that the unit will start up after power up. In this example all outputs except output 4 will startup in the off state. The pulse timer is the time that the output is switched on after a pulse command is issued. The pulse command can be issued using SMS, a missed call or by the timed events. The value entered is in half second units and the maximum is 60000. There are 3 pages for Mode Normal, A and B. The output follow inputs and the missed call triggers can be configured for each mode. Depending on the mode the outputs will be triggered according to the setup. The invert inputs will determine if the outputs are triggered when inputs go on or when they go off. In this example output 5 will be triggered when inputs 1-4 goes on while Output 6 will be triggered when inputs 1-4 go off. A missed call to the unit can be used to trigger an output pulse, Switch the current mode or to toggle an output. In this example output 1 will perform a pulse command when a voice call is received from a cell phone configured in cell phone positions 1,2 and 5-16. The missed call function uses the caller ID for the identification of the cell phone number so make sure the calling phones "send caller ID" is enabled. Output 2 will be toggle when a fax call is received from a cell phone number programmed in positions 1,2 and 5-16. It will then send a status SMS back.

4.5 AC Power monitor parameters battery charger:

Charger Status	Logger Setup Page1	Logger Setup Page2
Charger Power On		
Text message to send when activated :		<input checked="" type="checkbox"/> Enabled
<input type="text" value="Charger Power On"/>		On time to Activate [Half second Units] : <input type="text" value="120"/>
Send text message to the following Cellphone Numbers :		
1	2	3 4 5 6 7 8 9 10 11 12 13 14 15 16
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Charger Power Off		
Text message to send when de-activated :		<input checked="" type="checkbox"/> Enabled
<input type="text" value="Charger Power Off"/>		On time to Activate [Half second Units] : <input type="text" value="60"/>
Send text message to the following Cellphone Numbers :		
1	2	3 4 5 6 7 8 9 10 11 12 13 14 15 16
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

The communicator will send an SMS to cellphone number 1 containing “Charger Power On” when the charger is go on after 60 seconds and it will send an SMS to cellphone number 1 “Charger Power Off” when the charger is switched off for 30 seconds.

4.6 Status of the battery:

Setup Outputs	Other Parameters	Outputs Control Text	Battery Condition												
Battery Ok															
Text message to send when activated :		<input checked="" type="checkbox"/> Enabled													
<input type="text" value="Battery Ok"/>		Ok Level (0-255)	<input type="text" value="230"/>												
Send text message to the following Cellphone Numbers :															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Battery Faulty															
Text message to send when de-activated :		<input checked="" type="checkbox"/> Enabled													
<input type="text" value="Battery Faulty"/>		Faulty Level: (0-255)	<input type="text" value="200"/>												
Send text message to the following Cellphone Numbers :															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The battery status will be tested once every 24 hours when the power is on and continuously when the power is off. If the battery voltage is above the predefined voltage it will send a message "Battery Ok" to the predefined cellphone numbers. If the battery voltage is below the predefined voltage it will send "Battery Faulty" to the predefined cellphone numbers. The current status of the battery is determined at start-up and only changes in state will be reported. This means that you will not get an SMS every 24 hours telling you the state of the battery but only when the state changes. To calculate the Count to be programmed use the following equation.

Program Count = $(V/15) * 255$ where V is the voltage where you want the alarm.

To calculate V from the count use

$$V = (\text{Count} / 255) * 15$$

Examples:

$$V = (200/255) * 15 = 11.7V$$

$$V = (230/255) * 15 = 13.5V$$

$$\text{Count} = 13/15 * 255 = 221$$

4.7 Other parameters

Setup	Outputs	Other Parameters	Outputs Control Text	Battery Condition																																
<div>Current Password : <input type="text" value="12345"/> New Password : <input type="text" value="12345"/></div> <div>Password Required for SMS Control <input checked="" type="checkbox"/></div>																																				
<div>Enable Send Interval SMS Required <input checked="" type="checkbox"/></div> <div>Send to: <input type="text" value="24"/> Hours</div> <div><table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr><tr><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></table></div>					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																					
<div>Add Site Name to Messages <input checked="" type="checkbox"/></div> <div>Site Name: <input type="text" value="Centurion"/></div>																																				

The password that is necessary to send commands to the board. To change the password put the current password in on current password field and the new password in the New Password field. If you don't have the right password you can't program the unit remotely or send SMS command to the unit when password required tick box is on.

The interval SMS send an SMS to the selected cellphone number on the interval specified to the numbers specified. The interval SMS is the status message containing all status information.

Add the site name to the SMS messages send. If the box is ticked then the site name specified here will be added to all messages.

4.8 Setup Analogs

Analog 1	Analog 2	Analog 3	Analog 4	Control room messages											
Above High Limit															
Text message to send when activated :			<input checked="" type="checkbox"/> Enabled												
<input type="text" value="Dam Full"/>			High Limit [0-1023] : <input type="text" value="700"/>												
Send text message to the following Cellphone Numbers :															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Below Low Limit															
Text message to send when de-activated :			<input checked="" type="checkbox"/> Enabled												
<input type="text" value="Start Pump"/>			Low Limit [0-1023] : <input type="text" value="300"/>												
Send text message to the following Cellphone Numbers :															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The communicator will send an SMS "Dam Full" to the configured number when the analog value is above 700. It will also send an SMS "Start Pump" to the configured numbers when Analog 1 is below 300. The unit uses a 10 bit Analog to digital converter and 0 – 5V or 0 – 25mA correspond to a value of 0 – 1023.

To calculate the limit value use the following equation:

$$\text{Limit value} = V/5 * 1023$$

Example for a limit of 3 V:

$$\text{Limit value} = 3/5 * 1023 = 613$$

The analog alarm will reset and be ready to send another SMS when the Limit goes 5 units below or above the set value.

4.9 Setup timed events

Timed Events

DD - Date MM - Month YY - Year WW - Weekday HH - Hour MM Minute CC - Command
 Example: AN Switch Output 1 On, DF Switch Output 4 Off, EP Pulse on Output 5,
 MA Select Monitor A, MN Select Monitor Normal, SM SMS to Interval Numbers
 /Weekday 00-3F : Bit0=Sunday - Bit6 =Saturday, 77 - Ignore parameter except weekday use FF

DDMMYYWWHHMMCC		DDMMYYWWHHMMCC	
1	<input type="text" value="200208012000AN"/>	<input checked="" type="checkbox"/>	9 <input type="text" value="777777FF2000AX"/>
2	<input type="text" value="200208042000BN"/>	<input checked="" type="checkbox"/>	10 <input type="text" value="777777FF2000AX"/>
3	<input type="text" value="7777771E2000CN"/>	<input checked="" type="checkbox"/>	11 <input type="text" value="777777FF2000AX"/>
4	<input type="text" value="777777FF2000DN"/>	<input checked="" type="checkbox"/>	12 <input type="text" value="777777FF2000AX"/>
5	<input type="text" value="777777FF0600DF"/>	<input checked="" type="checkbox"/>	13 <input type="text" value="777777FF2000AX"/>
6	<input type="text" value="777777FF2000AX"/>	<input type="checkbox"/>	14 <input type="text" value="777777FF2000AX"/>
7	<input type="text" value="777777FF2000AX"/>	<input type="checkbox"/>	15 <input type="text" value="777777FF2000AX"/>
8	<input type="text" value="777777FF2000AX"/>	<input type="checkbox"/>	16 <input type="text" value="777777FF2000AX"/>

The tick is used to enable the timed event.

The format of the timed event is: DDMMYYWWHHMMCC where

DD is Date: 01-31 or 77 to ignore day

MM is Month: 01-12 or 77 to ignore month

YY is Year: 00-99 or 77 to ignore year

WW is Days of the week: 01-3F or FF to ignore Weekday

01 - Sunday 02 - Monday 04 - Tuesday 08 - Wednesday

10 - Thursday 20 - Friday 40 - Saturday

HH is Hour: 00-23 or 77 to ignore month **MM** is Minutes: 01-59 or 77 to ignore month

CC is Command to execute

Commands available for timed events are:

Outputs

AN Switch Output 1 On

DF Switch Output 4 Off

EP Pulse on Output 5

Monitor mode

MA - Select Monitor A

MN - Select Monitor Normal

MB - Select Monitor B

Send SMS to interval numbers

SM - SMS to Interval Numbers

Copy cellphone number position x to y

ab- Copy Cell Number 1 to Cell Number 2,

pa- Copy Cell Number 16 to Cell Number 1

In this example Events 1-5 are enabled. Event 1 is programmed to send On command to output 1 Sunday 20 February 2008 20H00. Event 2 is programmed to Switch output 2 on, Tuesday 20 February 2008 20H00. Event 3 is programmed to switch output 3 On from Monday to Friday at 20h00. Event 4 is programmed to switch output 4 On every day at 20h00. Event 5 is programmed to switch output 4 Off every day at 06h00.

4.10 Setup Logger

Charger Status	Logger Setup Page1	Logger Setup Page2
INPUTS		
Event Log High	<input checked="" type="radio"/>	<input type="radio"/>
Event Log Low	<input checked="" type="radio"/>	<input type="radio"/>
Alarm Log High	<input checked="" type="radio"/>	<input type="radio"/>
Alarm Log Low	<input checked="" type="radio"/>	<input type="radio"/>
OUTPUTS		
Log Output Events	<input type="radio"/>	<input type="radio"/>
<input type="button" value="Get Log #"/>	<input type="button" value="Get RTC"/>	<input type="button" value="Clear Event Log"/>
<input type="button" value="Set RTC"/>	<input type="button" value="Clear Startup Log"/>	<input type="button" value="Download Event Log"/>
	<input type="button" value="Download Startup Log"/>	

Charger Status	Logger Setup Page1	Logger Setup Page2
Analog Inputs		
Alarm Log High	<input type="radio"/>	<input checked="" type="radio"/>
Alarm Log Low	<input type="radio"/>	<input checked="" type="radio"/>
Change Log	<input checked="" type="radio"/>	<input type="radio"/>
Change Value	<input type="text" value="15"/>	<input type="text" value="10"/>
Other Log Events		
Charger Input	<input checked="" type="radio"/>	
Battery Input	<input checked="" type="radio"/>	
Monitor Change	<input checked="" type="radio"/>	
SMS Status when Log is 90 % Full To:		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Use these 2 pages to setup the logger parameters. Logging on the different events can be enabled or disabled separately. The system can alert you when the log is 90 % full. The Real time clock (RTC) can be set by clicking on the "Set RTC" button. The system Date and time will be programmed into the unit. The logs can be cleared by clicking on the Clear log buttons. The logs can be downloaded by clicking on the download event log buttons. The system will store the downloaded log into the comma delimited file specified.

Log the following events for the example screens

Input 1 High, Low, High alarm and Low alarm events.

Input 2 High alarm and Low alarm event

Output 2 events

Analog 1 change event when the analog value changes 15 units.

Analog 2 High Alarm events

All analog 4 events

Charger, battery and monitor change events

4.11 Setup Monitor Selection

Monitor Selection Setup										Timed Events				Hour Meter / Input1 Monitor Control			
Normal																	
										1 2 3 4 5 6 7 8							
Input High										<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			
Input Low										<input type="checkbox"/>				<input type="checkbox"/>			
1 2 3 4														1 2 3 4			
Analog High										<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			
										Analog Low				<input type="checkbox"/>			
Monitor A																	
										1 2 3 4 5 6 7 8							
Input High										<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			
Input Low										<input type="checkbox"/>				<input type="checkbox"/>			
1 2 3 4														1 2 3 4			
Analog High										<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			
										Analog Low				<input type="checkbox"/>			
Monitor B																	
										1 2 3 4 5 6 7 8							
Input High										<input type="checkbox"/>				<input type="checkbox"/>			
Input Low										<input type="checkbox"/>				<input type="checkbox"/>			
1 2 3 4														1 2 3 4			
Analog High										<input type="checkbox"/>				<input type="checkbox"/>			
										Analog Low				<input type="checkbox"/>			

Setup the inputs and analogs to be monitored in the different modes. The example screens show the following configurations:

Normal configuration is selected

Normal

Monitor all Inputs High events

Monitor A

Monitor Inputs 1-4 High events and Analog 1 and 2 High limits.

Monitor B

Disable monitoring on all inputs and analogs.

See SMS command to change the monitor mode using SMS.

4.12 Setup Run Meter and Input 1 monitor control

Monitor Selection Setup | Timed Events | Hour Meter / Input1 Monitor Control

Enable Run Meter on Input 1 ☒

Run Meter Password :

Send status SMS every **Hours running to:**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

☒ ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Log running event every **Hours running**

When input 1 is off disable monitoring on:

Inputs:

2 3 4 5 6 7 8 1 2 3 4

Disable ☐ ☒ ☒ ☐ ☐ ☐ ☐ ☐ ☒ ☐ ☐

Normal/Default State ☐ ☐ ☐ ☐ ☐ ☐ ☐

Tick enable run meter to enable the run meter on Input1. Set the run meter password to enable the setting of the run meter using SMS. Send an SMS every x hours running to the configured cellphone numbers. Log running event every y hours running. Set or read the run meter values. Use Input 1 to disable monitoring when input 1 is off ticking the corresponding event to disable. Normal/default state is the state or value to use as default when input 1 is switched on.

Example screen:

Enable the run meter

Run meter password is 98765

Send status message every 24 hours running to cell numbers 1 and 2

Log running event every hour running

The current hour meter value is 5H25

Disable inputs 3 and 4 as well as analog 2 when input 1 is off. The default state for input 3 and 4 is off and the default value for analog 2 is 712 when input 1 is enabled.

4.13 Setup Control room messages

Analog 1	Analog 2	Analog 3	Analog 4	Control room messages
Send status message to Cellphone number 1 on the selected events :				
	Activated (On) Event		De-Activated (Off) Event	
Input 1	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Input 2	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
Input 3	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Input 4	<input type="checkbox"/>		<input type="checkbox"/>	
Input 5	<input type="checkbox"/>		<input type="checkbox"/>	
Input 6	<input type="checkbox"/>		<input type="checkbox"/>	
Input 7	<input type="checkbox"/>		<input type="checkbox"/>	
Input 8	<input type="checkbox"/>		<input type="checkbox"/>	
Charger Input	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	Above Hi- Limit Event		Below Low Limit Event	
Battery Status	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Analog 1	<input type="checkbox"/>		<input type="checkbox"/>	
Analog 2	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
Analog 3	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Analog 4	<input type="checkbox"/>		<input type="checkbox"/>	

Send status messages to cellphone 1 when the configured events are triggered. The Run meter status message will be send if enabled and the corresponding input is triggered. If run meter 3 is enabled the Run meter status will be send when input 3 is triggered.

4.14 Setup Run Meters 1-8

Run Meters 1-8																
Enable RUN	Log Every	SMS Every	Run Meter Value XXXXHYM													
1 <input checked="" type="checkbox"/>	1	1	Read	0H0M	Set											
2 <input checked="" type="checkbox"/>	1	0	Read	0H10M	Set											
3 <input checked="" type="checkbox"/>	1	0	Read	0H20M	Set											
4 <input checked="" type="checkbox"/>	1	0	Read	0H30M	Set											
5 <input checked="" type="checkbox"/>	1	0	Read	0H40M	Set											
6 <input checked="" type="checkbox"/>	1	1	Read	0H50M	Set											
7 <input checked="" type="checkbox"/>	1	0	Read	1H15M	Set											
8 <input checked="" type="checkbox"/>	1	0	Read	1H20M	Set											
SMS TO:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The first column control if a run meter is enabled or not. The second column set the time in hours between run log points. If set to 1 it will log a point for every hour running. Running meter increment when the corresponding input is on. The third column set the time in hours between run hour SMS's. The Run Hour SMS containing the current run meter values for all run meters that is enabled will be SMSed to the selected numbers. The last column is used to read and set the run meter values.

4.15 Setup Modem and Remote Connection

Modem Setup

Select modem connected to Cellcop Communicator

☐ Cellcop SIM300 ☐ Other

☒ Siemens TC35

☐ GM29 Sony Erricson

Remote connection using modem connected to the PC:

Cellphone Number:

SMS Message to Send:

Send SMS

Command to Send

Send Command to Modem

Disconnect **Connect to remote Unit**

Response from Modem

Program SMS Communicator **Cellphone Number :**

Read SMS Communicator **Disconnect** **Connect to remote Unit**

Select the modem connected to the cellcop unit by ticking the appropriate option.

1. Cellcop SIM300
2. Siemens TC 35
3. GM29 Sony Erricson
4. Other

With other you can insert the appropriate setup command for your GSM modem.

For remote connection to your cellcop board connect the modem to your PC. Run the configuration software and setup the appropriate port. Insert the cellphone number of your remote cellcop unit and use "Connect to remote Unit". When the remote site is connected use the configuration software as if you were connected directly to the cellcop board.

5 Controlling the GSM Communicator using a Cellphone (SMS commands)

5.1 Output Commands

Control a single output

<Passwd5><Space>ANS

Character 1: A-H : Output1 – Output 8

Character 2: N - On

F - Off

P – Pulse

Character 3: S – Send Status SMS back

Any other character don't send SMS back

Control all outputs

<Passwd5><Space>OUTABCDefghS

Characters 1 – 8 : if Capital switch output on and if non-capital switch output off

Character 9: S – Send Status SMS back

Any other character don't send SMS back

Example:

12345 OUTABCDEFGhS

Switch Outputs 1-7 On and 8 Off and send Status SMS back.

5.2 Request Status Command

<Passwd5><Space>STA – Normal Status request

<Passwd5><Space>STB – Run Meter Status request

<Passwd5><Space>STZ – Normal + Run meter Status request (2 SMS)

NB: Must have a cellphone number in position 9 to use STB and STZ

5.3 Select Monitor Mode

<Passwd5><Space>MAS

Character 2: N – Select Normal Mode

A – Select A Mode

B – Select B Mode

Character 3: S – Send Status SMS back

Any other character don't send SMS back

5.4 Set the Real Time Clock using SMS

<Passwd5><Space>RTCDDMMYYWHHMMSSS

DD – Day

MM – Month

YY – Year

W – Weekday (0-6 : Sunday – Saturday)

HH – Hour

MM – Minutes

SS - Seconds

Character 17: S – Send Status SMS back

Any other character don't send SMS back

Example:

12345 0610683131200S – 6 Oktober 2068 Wednesday 13:12:00 and send Status SMS back

5.5 Program Timed Events using SMS

<Passwd5><Space>PECDDMMYYWHHMMCCS

Character 3 – Select Time event number : A-P : Event Number 1 - 16

DD – Day

MM – Month

YY – Year

W – Weekday (0-6 : Sunday – Saturday)

HH – Hour

MM – Minutes

CC – Comands

Character 17: S – Send Status SMS back

Any other character don't send SMS back

77 - Ignore Date Time parameter

Commands available:

AN Switch Output 1 On, DF Switch Output 4 Off, EP Pulse on Output 5,

MA Select Monitor A, MN Select Monitor Normal,

SM SMS to Interval Numbers

ab- Copy Cell Number 1 to Cell Number 2, pa- Copy Cell Number 16 to Cell Number 1

Example:

PEC77777772012BNS – Ignore Date parameters every day 20:12 switch output B on and send status SMS back

PEC10100472012paS – Ignore Week day and on 10 October 2004 20:12 copy Cell 16 to 1 and send status SMS back

5.6 Program Cellphone Number using SMS

<Passwd5><Space>TNAS<Cellphone Number>

Character 3 : A-P : Cellphone Number 1 – 16

Character 4 : S – Send Status SMS back

Any other character don't send SMS back

<Cellphone Number> - Cellphone number to program

Example:

12345 TNCS+278312345678 – Program Cell number +278312345678 into position 3 and send Status SMS back

5.7 Program Monitor Modes using SMS

<Passwd5><Space>SMNABCDEFGHABCDEFGHABCDEFGHS

Character 3 : N – Select Normal Mode
 A – Select A Mode
 B – Select B Mode

Character 4-11 : if Capital enable inputs High and Non Capital Disable inputs High

Character 12-19 : if Capital enable inputs Low and Non Capital Disable inputs Low

Character 20-23 : if Capital enable inputs Analog High and Non Capital Disable
Analog High

Character 24-27 : if Capital enable Analog Low and Non Capital Disable Analog Low

Character 28 : S – Send Status SMS back
 Any other character don't send SMS back

Example:

12345 SMBabcdEFGHABCDefghABcdabCDS – for Mode B set the following Monitor
Inputs 4-8 High and Inputs 1-4 Low and Analog 1-2 High and Analog 3-4 Low and
send Status SMS Back

5.8 Set RUN METER to a Value

<Passwd5> <Space> RUNM <RUNWPasswd5> XXXXXHYYS

Where W is

- M – Run Meter 1
- 2 – Run Meter 2
- 3 – Run Meter 3
- 4 – Run Meter 4
- 5 – Run Meter 5
- 6 – Run Meter 6
- 7 – Run Meter 7
- 8 – Run Meter 8

Example:

12345 RUNX9876533333H59MS

M Run meter 1. Program password: 12345, Run meter password: 98765, Set Hours
to 33333 and minutes to 59, if last character S - Send SMS to confirm programming

XXXXX must be 5 digits

YY must be 2 Digits

6. Specification

1. Modem used	Sony Erricson GM29
2. Power supply	13.8V DC \pm 5%
3. Max. voltage for outputs	240 V AC
4. Max. current for Outputs	10 A

IMPORTANT NOTICE

The Cellcop communicator system cannot prevent emergencies. It is only intended to alert you and - if programmed - your neighbors and monitoring station of an emergency situation. GSM communicators are generally very reliable but they may not work under all conditions and they are not a substitute for prudent security practices or life and property insurance. Your communicator system should be installed and serviced by qualified security professionals who should instruct you on the level of protection that has been provided and on system operations.