



Mod-Control

Users manual

“Cynox Module Control” – Application information

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1. General information

This Software is mainly been tested on Windows XP, but should install and run on all Windows 2000 and Windows 2003 Server operating systems as well.

2. Installation

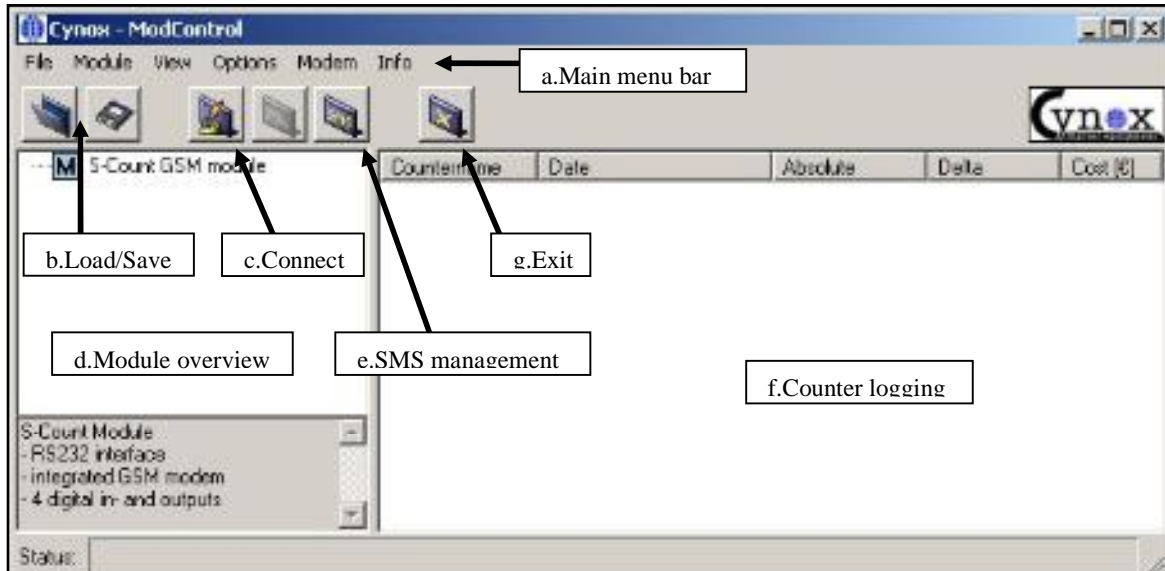
To run the installation setup, just insert the installation CD and wait for the setup dialog to start. Notice that this requires the Windows autorun feature to be enabled. To start the setup manually, browse the files on the CD and execute the setup.exe.

ModControl requires the Microsoft .NET 2.0 framework to be installed. If the setup reports any related issues, you can find the “Microsoft .NET Redistributable Package Version 2.0.exe” on the installation CD.

3. Using the Software

Notice that most of the controls support tooltip information. You can enable/disable the tooltips in the applications general options.

3.1 Main application window



Picture 1- Main application window

a. Main menu

File	- Load...	Load configuration / data from file
	- Save	Quicksave current
	- Save...	Save current configuration / data to file
	- Clear Data	Clear current dataset
	- Export	currently not implemented
	- Settings	Save settings / reload settings
	- Quit	Exit application
Module	- Add	Add a new Module
	- Edit	Edit settings of selected Module
	- Delete	Delete selected Module
View	- Display last meter reading only	Show only the latest meter reading for every counter input
	- Highlight active counters	currently not implemented
Options	- General...	General application settings
Modem	-	currently not implemented
Info	- About	Version and contact information

b. Load/Save

See “a.Main menu: File – Load/Save”

c. Connect

Connect to the selected Module using the current connection settings (see “3.2. Add a new Module / change existing Module”)

d. Module overview

A tree-view, listing all available Modules with their affiliated counter inputs and Sub-Modules

e. SMS management

Currently there is no functionality implemented. In following releases incoming SMS messages will be handled in this dialog.

f. Counter logging

This window provides a detailed overview about all saved meter readings, depending on the selection in the “d. Module overview”.

g. Exit application

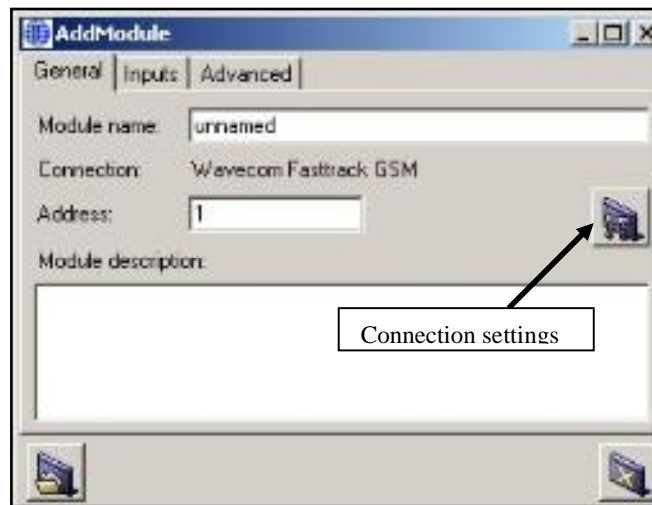
Close the Application.

3.2 Add a new Module / change existing Module

This Dialog allows the configuration of some basic Module settings. Notice that the description applies for both, “adding a new Module” and “changing module settings”.

a. General (see picture 2)

- **Module name**
Any desired name for the Module
- **Connection**
You can change the connection settings by clicking the “Connection Settings” button
- **Address**
The default module address is 1. Addresses are required for bus operation, allowing one master to access each module independently by using its customized address. The address can be changed in the Advanced online settings (see 3.4.2)
- **Module description**
Enter any desired descriptive text.



Picture 2- Module settings - General

b. Digital inputs (see picture 3)

- **Input overview**
Shows the current name and function of the available inputs
- **Module input count**
Should be configured in regards to the hardware configuration of the Module (e.g. if your Module supports 4 digital inputs, select 4)
- **Name**
Any desired descriptive name
- **Unit**
The desired unit of measurement to use for this input
(only used if input is operating as a counter)
- **Impulses/Unit**
Required for unit scaling. Specifies how many digital pulses equal 1*unit.
(only used if input is operating as a counter)
- **Cost/Unit**
Required to calculate consumption cost
(only used if input is operating as a counter)



Picture 3- Module settings – Digital inputs

3.3 Connecting to a Module

To establish a connection with the selected Module (using the configured connection settings), click the “Connect”-Button (see picture 1) or select “Connect” in the context menu of the desired Module. A “Connect dialog” (see picture 4) will appear, providing information about the current status of the connection procedure.

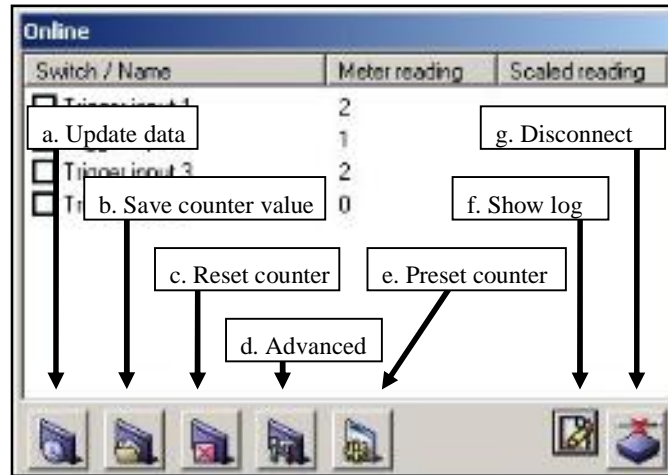


Picture 4- Connecting

Once connected, a dialog with basic configuration settings will show up (see “3.4 Module configuration”).

3.4 Module configuration

3.4.1 Basic options and settings



Picture 5- Main window

a. Update data

Requests the most up to date data from Module.

b. Save counter value

Saves the actual meter reading of the selected counter to the local database. Note that this won't work for inputs configured as a trigger.

c. Reset counter

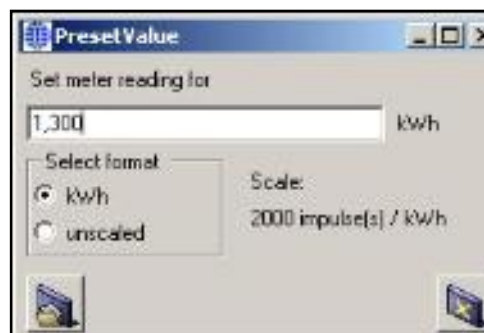
Resets the current meter reading to 0.

d. Advanced

Shows advanced Module settings (see "4.2 Advanced settings").

e. Preset counter

Initializes the meter reading of the selected counter to a specific value (see picture 6). You can either enter an absolute meter reading or choose to provide a scaled value (according to configured unit-scale) which will be automatically converted to an absolute value.



Picture 6- Main window

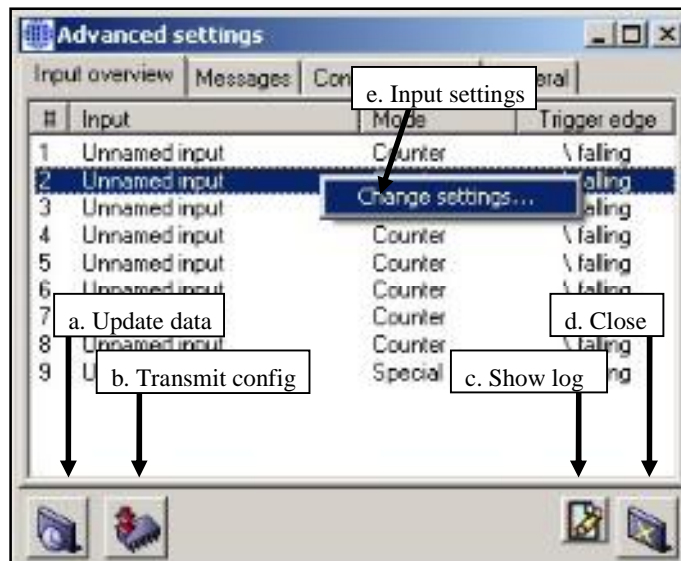
f. Show log

Shows the communication log. (mainly for debugging purposes)

g. Disconnect

Closes the current connection and return to application main window.

3.4.2 Advanced settings



Picture 7- Advanced settings - Inputs

a. Update data

Requests the most up to date data from Module.

b. Transmit configuration

After all the desired configuration changes have been made, you can transmit the updated configuration data to the module using this option. The module will immediately operate using the new settings. It will remember all changes and use the setup as the new default start up configuration.

c. Show log

Shows the communication log. (mainly for debugging purposes)

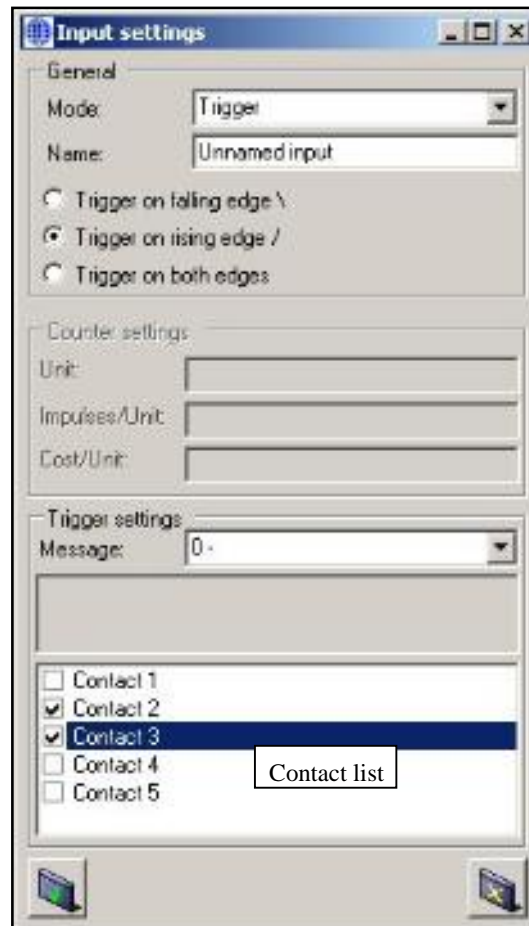
d. Close dialog

Closes the advanced configuration dialog. Note the all changes will be lost if they haven't been transferred to the module (see "b. Transmit configuration")

e. Input settings

To change the mode of operation of a specific input, right click the desired input and select the "Change settings" option (see "3.4.2.1 Input configuration").

3.4.2.1 Input configuration



Picture 8- Input configuration

Input configuration (see picture 8)

- **Mode**
Select the mode of operation for the current input from the drop down list.
- **Name**
Enter any desired descriptive name for the input.
- **Trigger edge**
This selection defines if the trigger event should occur on a high->low transition, a low->high transition or on both input level changes.
- **Counter settings**
 - **Unit**
The desired unit of measurement to use for this input.
 - **Impulses/Unit**
Required for unit scaling. Specifies how many digital pulses equal 1*unit.
 - **Cost/Unit**
Required to calculate the consumption cost.
- **Trigger settings**
 - **Message**
Select the message that you want to be sent if the trigger event occurs
 - **Contact list**
Select the contacts you want the trigger have a message sent to

3.4.2.2 Defining messages

You can define up to 5 report messages. If you have one or more inputs operating as a trigger input, the module can be configured to send those messages to a specified contact every time a trigger event occurs.

Just select the message you want to change, enter the message text in the textbox located at the bottom of the screen and click apply (see picture 9).



Picture 9- Advanced settings - Messages

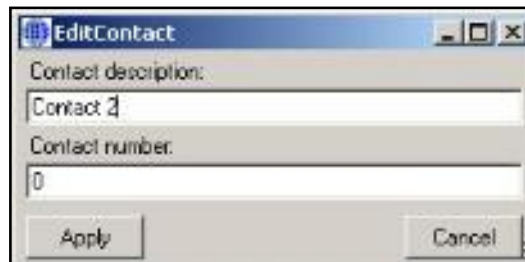
3.4.2.3 Defining contacts

You can define up to 5 contact numbers. If you have one or more inputs operating as a trigger input, the module can be configured to send a message to the specified contacts every time a trigger event occurs.



Picture 10- Advanced settings - Contacts

Just right click the contact you want to change and select “Edit contact” (see picture 10). A new dialog will appear (see picture 11).



Picture 11- Edit contact

- **Contact description**
Enter any desired descriptive name for the contact.
- **Contact number**
Enter the telephone number of your contact here. This is where the short messages will be sent to.

3.4.2.3 General module settings

- **Module #**
Any desired identification string
- **Module name**
You can copy the module name to the Module # field by clicking the arrow.

- **Password**
The default password is “cynox”. The password is required when sending SMS-commands to the module.
- **Address**
The default module address is 1. Addresses are required for bus operation, allowing one master to access each module independently by using its customized address. The valid address range is 1-10000. Note that address 43 is reserved.



Picture 12- Advanced settings - General

3.4.2.4 Sending SMS for output switching

To switch the output channel by sending a SMS for your mobile phone to the GSM S-Count you have to use following commands :

#password#channell#ON/OFF#

The default password ist „cynox“

To switch the first channel ON, use this command :

#cynox#1#1#

To swich the first channel OFF, use this command :

#cynox#1#0#