Prog531

Object : Supercal 531

Subject : **User guide for Prog531 Software**

Pages : 11

User guide

E-06

JFS / 09.10.07
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1. GENERAL INFORMATION

1.1 Main Characteristics

The software Prog531 enables to read and parameter all the data held in the Supercal 531.

Communication between Prog531 and the device is possible with optical head or MBus (primary or secondary address) connection with PC serial port.

2. INSTALLATION

Depending on the file you received (Prog531_V-x-x-x-x.zip or Setup.exe), the installation process is not the same. Please follow instructions below according to the file received.

In both case after installation, **please control the propriety of all files installed. They must not be in read only mode. If they are in read only mode, change them to write mode (remove read only propriety with the file manager).**

The program can be started with the file ***Prog531.exe*** located in the installation directory.

2.1 For Prog531_V-x-x-x-x.zip file

Unzip file Prog531_V.x.x.x.x.zip on your hard disk. For standardisation you should create a directory in ***C:\Program Files\Sontex\Prog531*** and unzip the file in this directory.

If an old Prog531 version is already installed on your computer in this directory, please replace all files with the new one.

2.2 For Setup.exe file

Launch Setup.exe file and follow on screen instructions. The default installation path is ***C:\Program Files\Sontex\Prog531.*** You can change it during installation process.

If an old Prog531 version is already installed on your computer in this directory, please replace all files with the new one.

3. REQUIRED EQUIPMENT

The equipment required to operate the software Prog531.exe is the following :

- PC computer Pentium II 500MHz or newer
- Operating system Windows 98SE or Windows 2000/XP/VISTA.
  (This software has not been tested on other OS (NT) and functionalities are not guaranteed by SONTEX SA on these OS).
  Depending on PC configuration and serial port, communication success could be different.
- 15 Mb of free space on the harddisk.
- 256Mb RAM Memory

3.1 Microsoft MSXML and Internet Explorer

The software Prog531 use Microsoft MSXML tool to be able to generate xml file. This MSXML tool is integrated in the Internet Explorer but only in version 6.0 and above.

Therefore the version of Internet Explorer installed on the computer has to be V6.0 or higher. The update versions for IE are available under the Microsoft website.

3.2 Serial Port configuration

For version 2.6.x.x and higher of the Prog531, you do not need to change the FIFO feature of your serial port. The program is now no more depending on this FIFO feature.

If you are using a previous version (below V2.6.x.x) or if you have problem to communicate with the 531, please disable the **FIFO feature of the serial port.** Follow the process below to check or change your FIFO settings of the communication port used for Prog531.

3.2.1 Process to change FIFO feature on Window 98/98SE systems

- Select [**Start**] → [**Settings**] → [**Control Panel**]
- Double-click the [**System**] icon
- Click the [**Device Manager**] tab
- In the Device Manager list, double-click [**Ports (COM & LPT)**]
- Double-click on the **Communication Port** used (i.e. COM1)
- Click the [**Port settings**] tab
- Click on the [**Advanced**] button
- If the [**Use FIFO buffers**] checkbox is checked, uncheck it.
- Close all windows with [OK] button
- Reboot the PC

3.2.2 Process to change FIFO feature on Windows 2000 or XP systems

- Select [**Start**] → [**Settings**] → [**Control Panel**]
- Double-click the [**System**] icon
- Click the [**Hardware] tab**
- Click on the [**Device Manager**] button
- In the Device Manager list, double-click [**Ports (COM & LPT)**]
- Double-click on the **Communications Port** used (i.e. COM1)
- Click the [**Port settings**] tab
- Click on the [**Advanced**] button
- If the [**Use FIFO buffers**] checkbox is checked, uncheck it.
- Close all windows with [OK] button
- Reboot the PC

3.3 Optical Head or M-Bus central configuration

In case of communication problems with the device Supercal 531 by optical or M-Bus, change the "Filter settings" with the following approach:

1. Preliminary check
   - Check you are connected to the right serial port COMx
   - Set the “Filter settings (Optical and M-Bus)” filter to “**Without filter**”. Depending on the optical head construction, the signal has to be filtered for successful communication.
   - Try a new detection

2. If detection failed
   - Set the reception filter : “**Echo**”.
   - Try a new detection

3. If detection failed
   - Set the reception filter : “**Noise**”.
   - Try a new detection

4. Try with different hardware : other device, optical interface, computer, etc. and start again.

3.3.1 Configuration known for some optical heads

For these optical heads, we have noted the according configuration of the "Filter settings" in order to work correctly with the Prog531 :

Optical head	**Filter settings**
P+E Technik : "K1-98"	Without filter
P+E Technik : "K01-USB"	Without filter
Kamstrup	Echo
Siemens	Echo

4. RECOMMENDATION OF USE

4.1 Communication with 531 device by M-Bus at 300 bauds

In the Prog531 you can communicate with 531 devices configured with M-Bus baudrate at 2400/4800 or 9600 bauds. **It is not possible to communicate at 300 bauds by MBus** (this operation would take also too many time !). **Of course you can communicate by the optical head (2400 bauds) on 531 Mbus devices configured at 300 bauds.**

4.2 Output files in "xml" format

Since Prog531 V2.x.x.x the output format of the installation protocol and the stored values is a "xml format". **In order to view correctly the information in a web browser** like "Internet Explorer" **you must have in the same directory than the xml file you want to open, the xsl model file (model_storedvalues.xsl or model_installationprotocol.xsl)**.

This is necessary because **the web browser use both the "xml file" and the "xsl file" to show the data.**

Therefore if you save the "xml file" in another directory than the "Prog531.exe" directory, you will have to copy manually to the same directory the corresponding "xsl model file" in order to view the data correctly.

4.3 Optical Turbo Mode for optical head (since Supercal 531 V3.7)

Since version V3.7 of the Supercal 531, it is possible to communicate by the optical head at 9600 bauds instate of 2400 bauds previously used.

It is possible to enable or disable this feature in the Prog531 (only on Windows 2000/XP).

The selection of the communication speed (2400 or 9600) by optical head is automatically done by the software Prog531 regarding the version of the Supercal 531 detected :

If the "Optical Turbo Mode" is enabled :

- If 531 V3.7 or later : Set speed for optical head at 9600 bauds.
- If 531 V3.6 and previous : Set speed for optical head at 2400 bauds.

If the "Optical Turbo Mode" is disabled :

- Any version of 531 : Set speed for optical head at 2400 bauds.

If you are working with Supercal 531 V3.7 and with this feature enabled and communication error occurs, please try to disable this feature and try again.

Please also ensure that your optical head supports the 9600 bauds speed (like optical heads "K1-98" and "K01-USB" provided by P+E Technik (www.petechnik.de))

4.3.1 On Windows 2000 / XP / VISTA systems

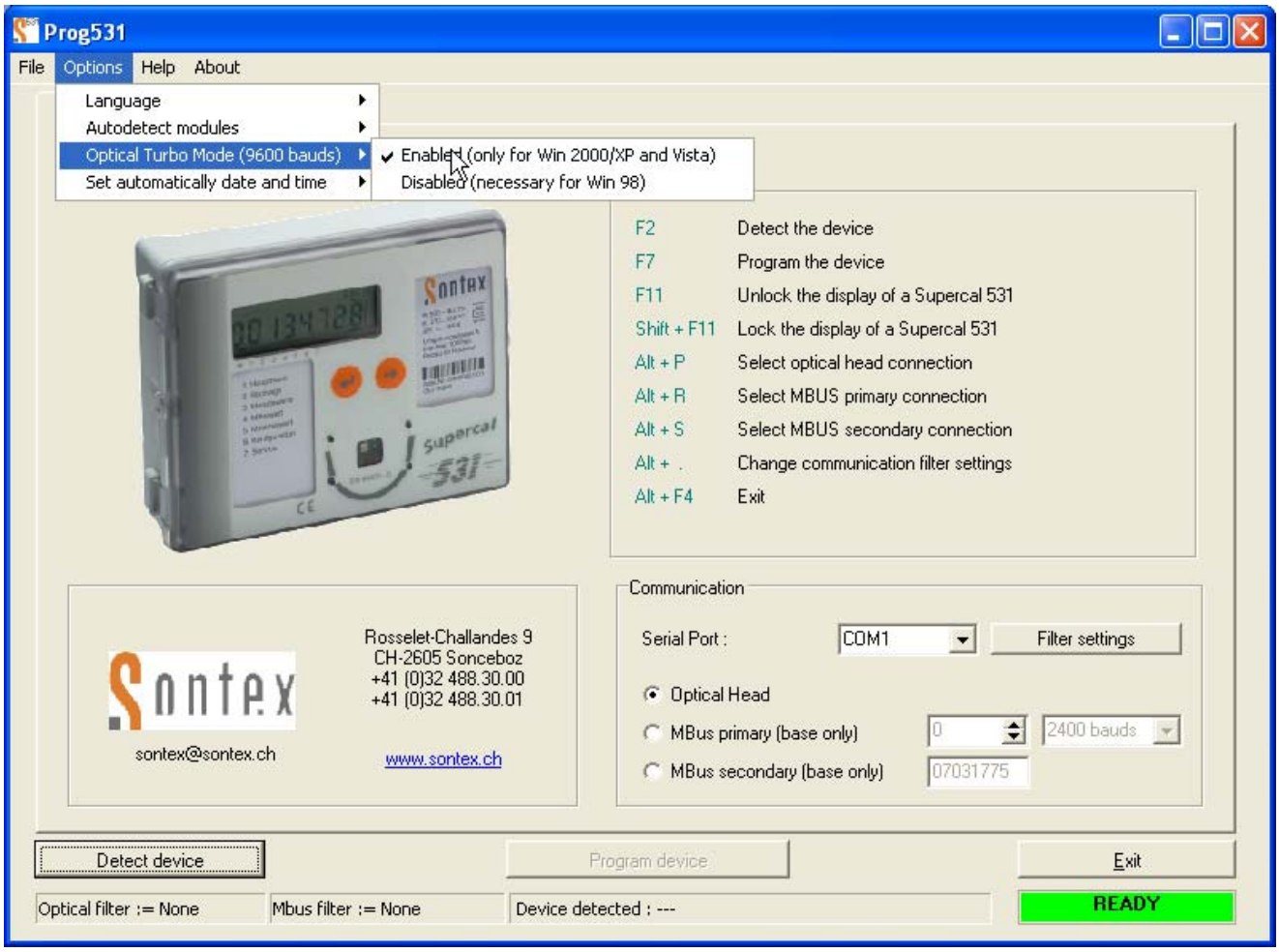
This feature **is only available on PC with Windows 2000, XP or VISTA**.
It is possible for the user to enable or disable this feature with the menu :

"Options" → "Optical Turbo Mode (9600 bauds)" → "Enabled…" or **"Disabled…"**

as you can see in the following picture.

If this feature is **"Enabled"** : The software will communicate by optical head at 9600 bauds if the Supercal 531 is a V3.7 or above. Otherwise it will communicate at 2400 bauds.

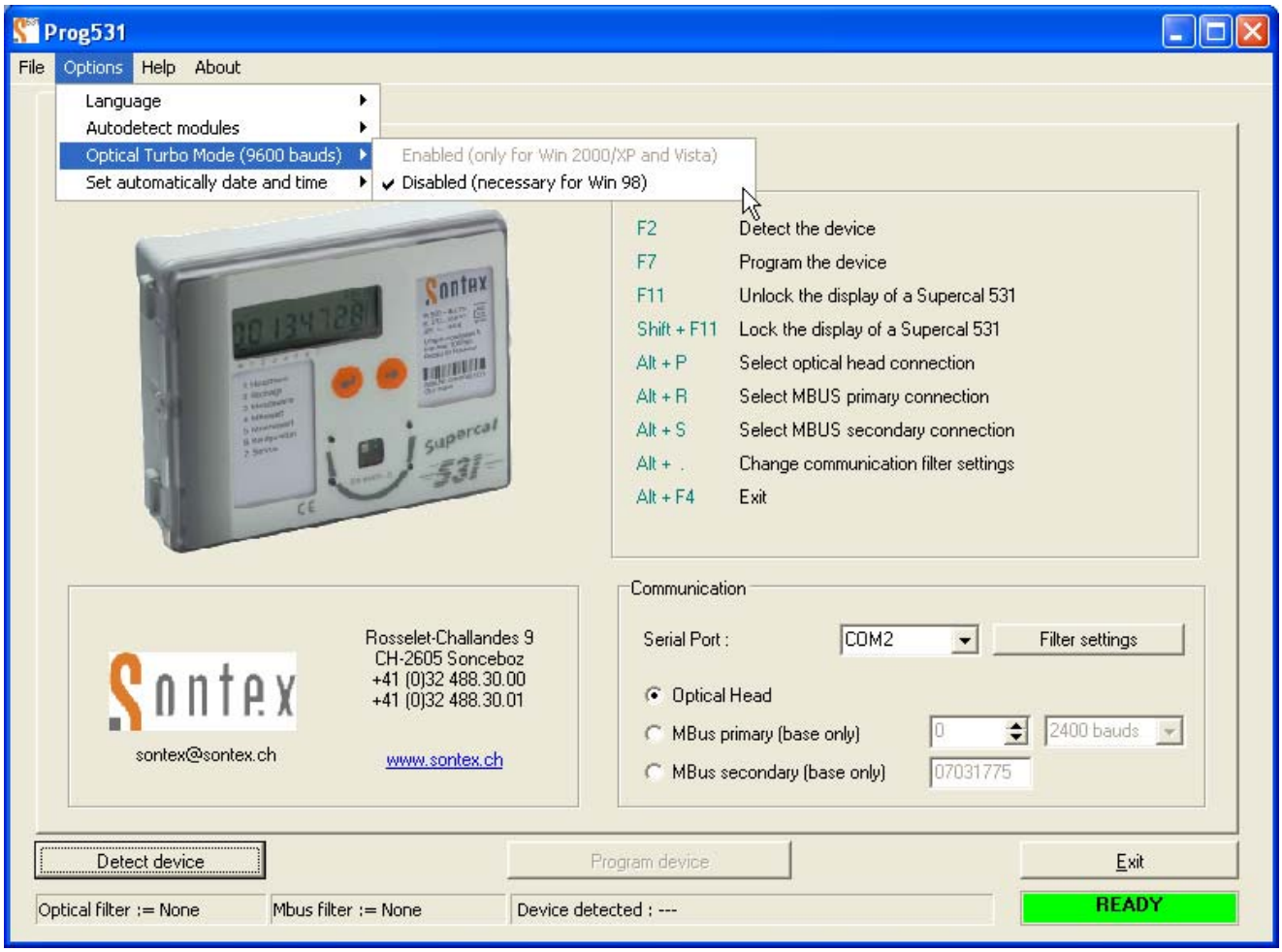
If this feature is **"Disabled"** : The software will communicate by optical head at 2400 bauds for all versions of Supercal 531.



4.3.2 On Windows 98 systems

Unfortunately Windows 98 systems do not support this feature. Therefore the software Prog531 will check at start-up if the PC is working on Windows 98 and in this case it will automatically "**Disable**" this feature to avoid communication problems and error messages.

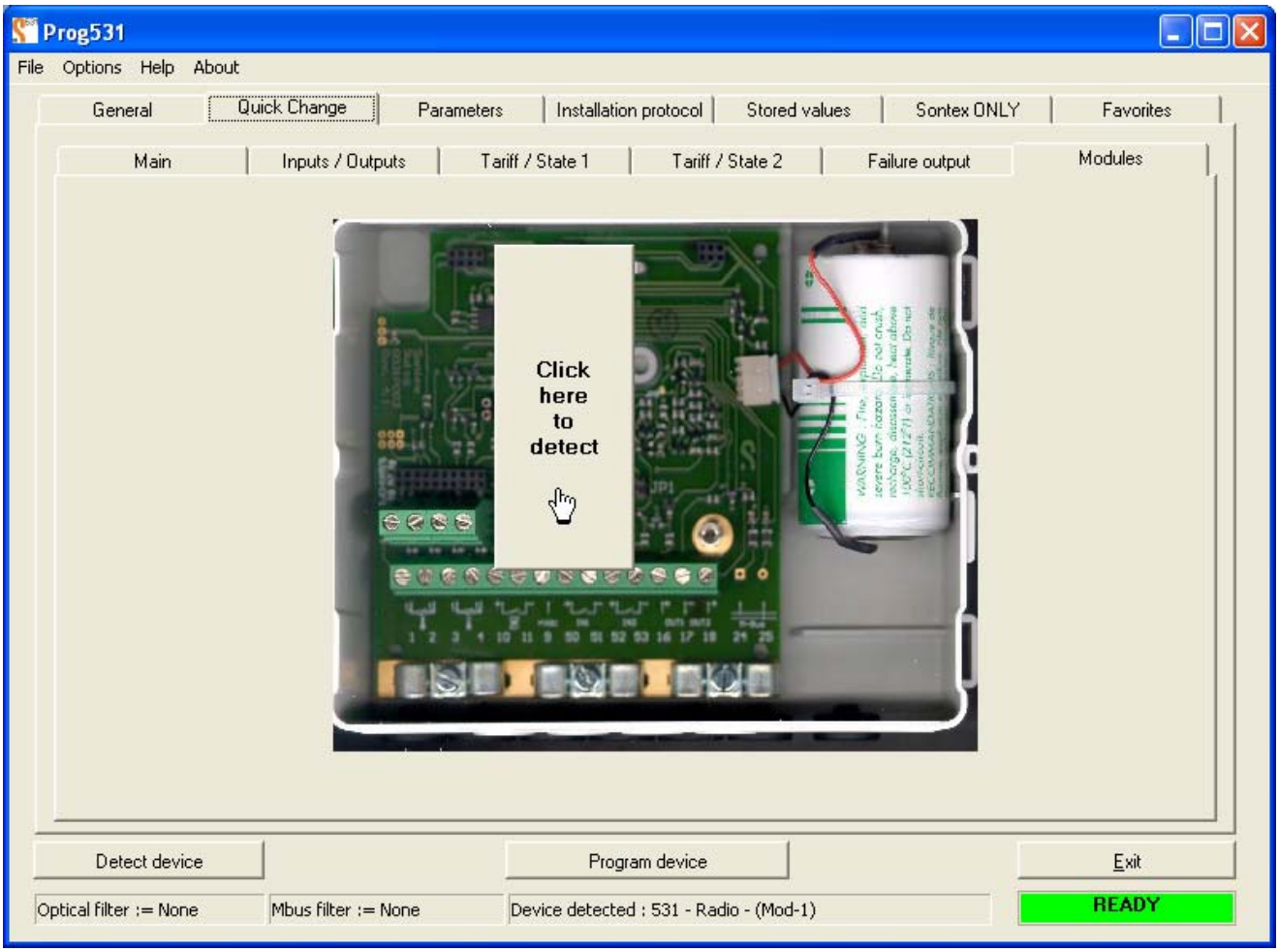
The "**Enabled**" items in the options menu is in this case not available and the communication speed for optical head is set to 2400 bauds like in previous versions of the Prog531 (no changes for users).



4.4 Autodetect modules

Feature added in Prog531 V2.7.2.14 and later.

If your 531 contains modules and you want to configure them, until now you had to detect the module with the according “Click here to detect” button in the Prog531. This action had to be done manually after the detection of the 531.

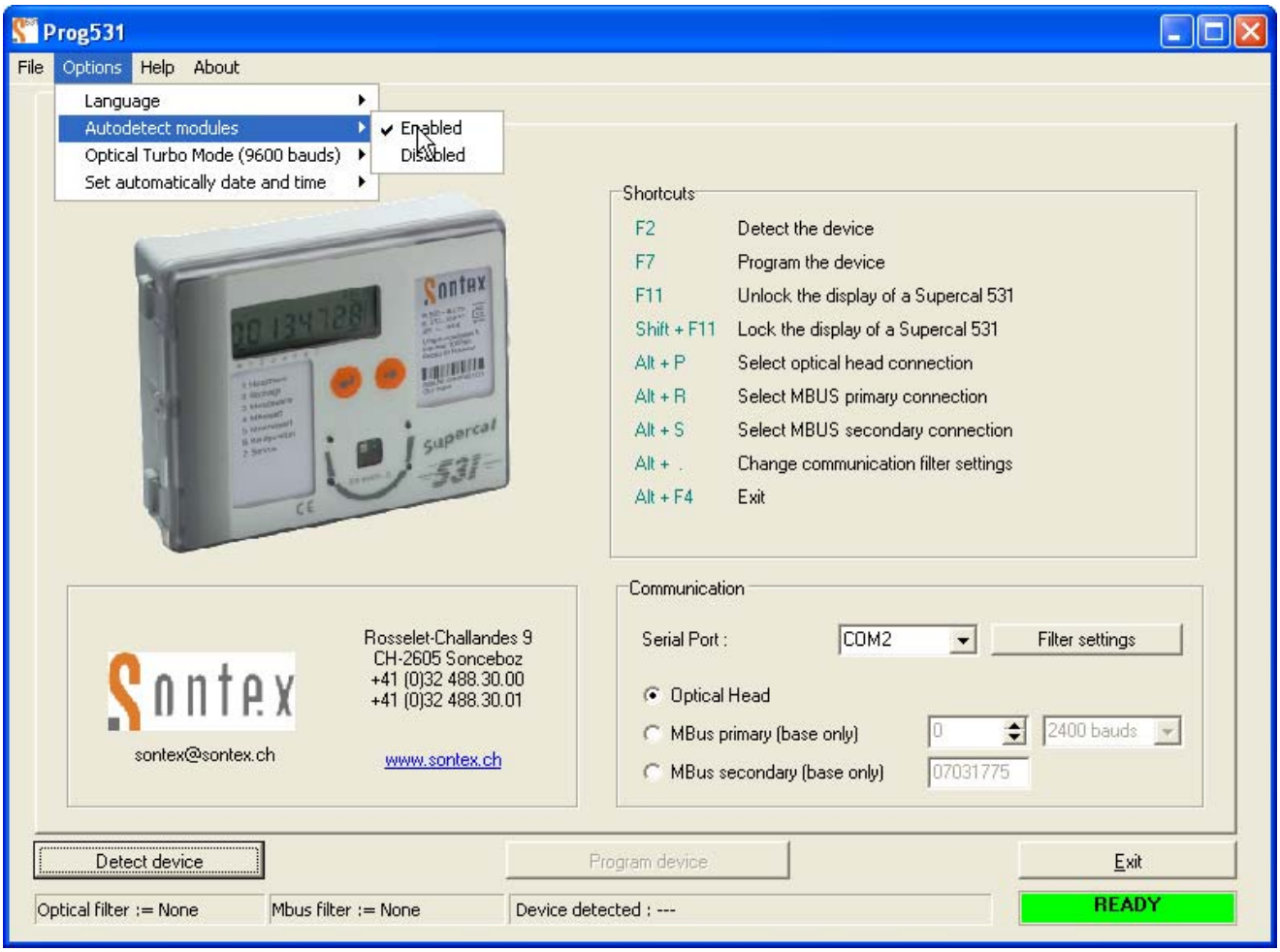


Since Prog531 V2.7.2.14, it is possible to autodetect the module(s) by selecting this option in the menu :

“Options” → “Autodetect modules” → “Enabled”

If this feature is **“Enabled”** : The software will automatically detect the modules after the detection of the 531 with the “Detect device” button.

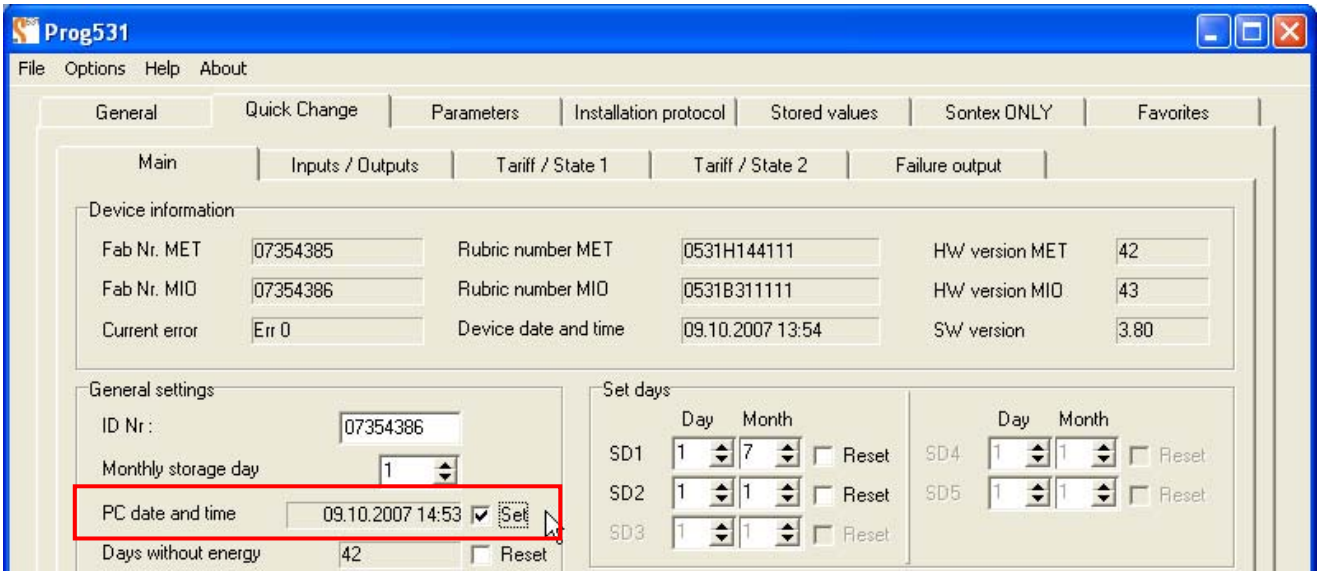
If this feature is **“Disabled”** : The software will not detect automatically the modules after the detection of the 531 (like in the previous version of Prog531). The user has to click on the “Click here to detect” button to get the module configuration.



4.5 Set automatically the date and time of the Supercal 531

Feature added in Prog531 V2.7.2.14 and later.

To set the date and time of the Supercal 531 according to the PC you have to check the box in the “Quick Change” – “Main” tab. This action has to be done for every 531 detected.

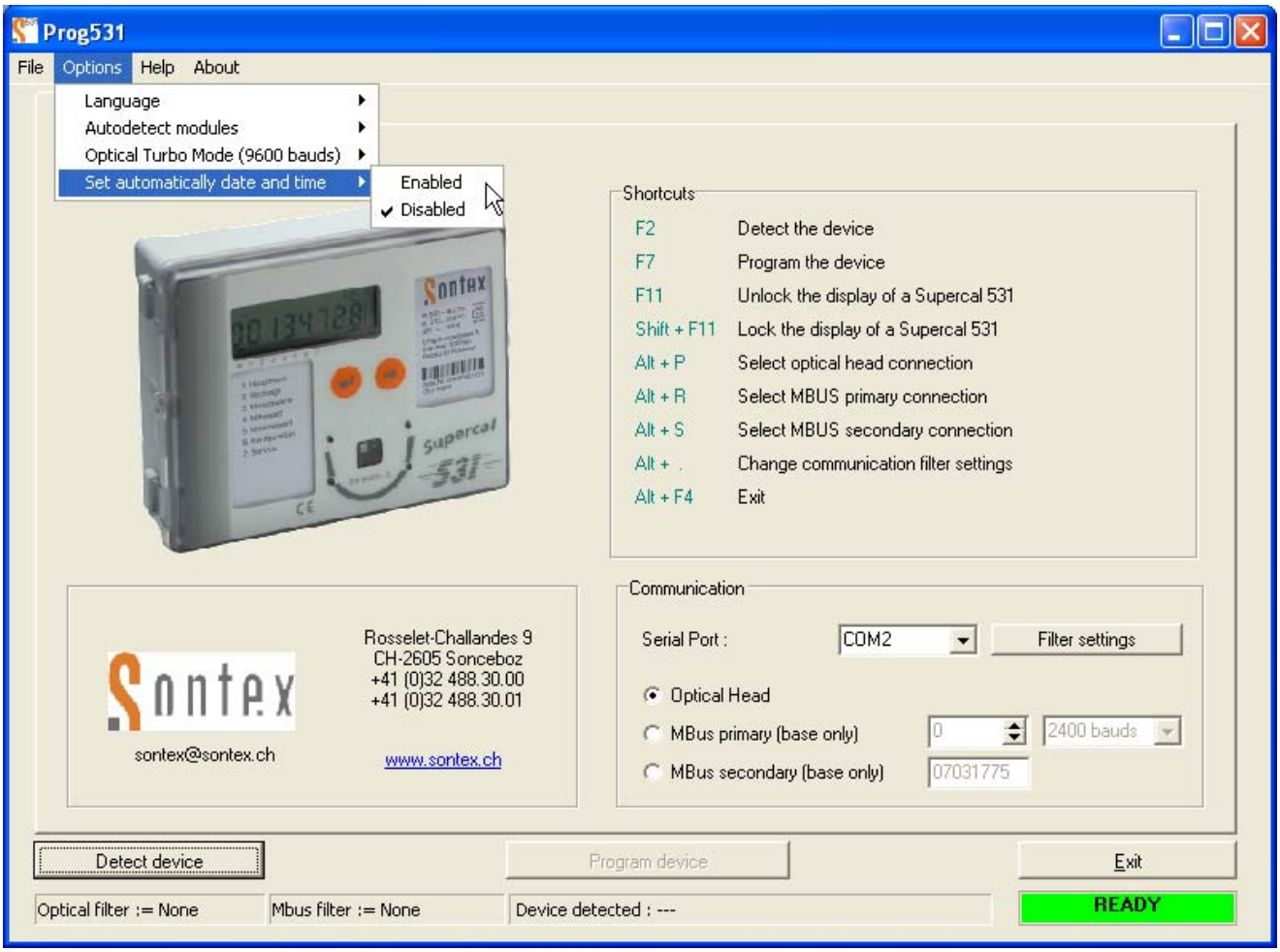


You have now the possibility to automatically set this checkbox after the detection.

You can activate this option in the menu :

“Options” → “Set automatically date and time” → “Enabled”

Then the “Set” checkbox for date and time will be automatically set after the detection of the 531 (after “Detect device”).



4.6 New correction curves (No 5.1 ; 6.1 and 7)

Since Prog531 V2.12.0.15 new correction curves has been added for qp3.5, qp6.0 and qp10.0.

The old correction curve for qp3.5 (N°5 in the combobox) must still be used with a Superstatic 440 with a fabrication number until **0737xxxx**. But for a new Superstatic 440 qp3.5 with a fabrication number higher than **07380000** the new correction curve (N°5.1) must now be used.

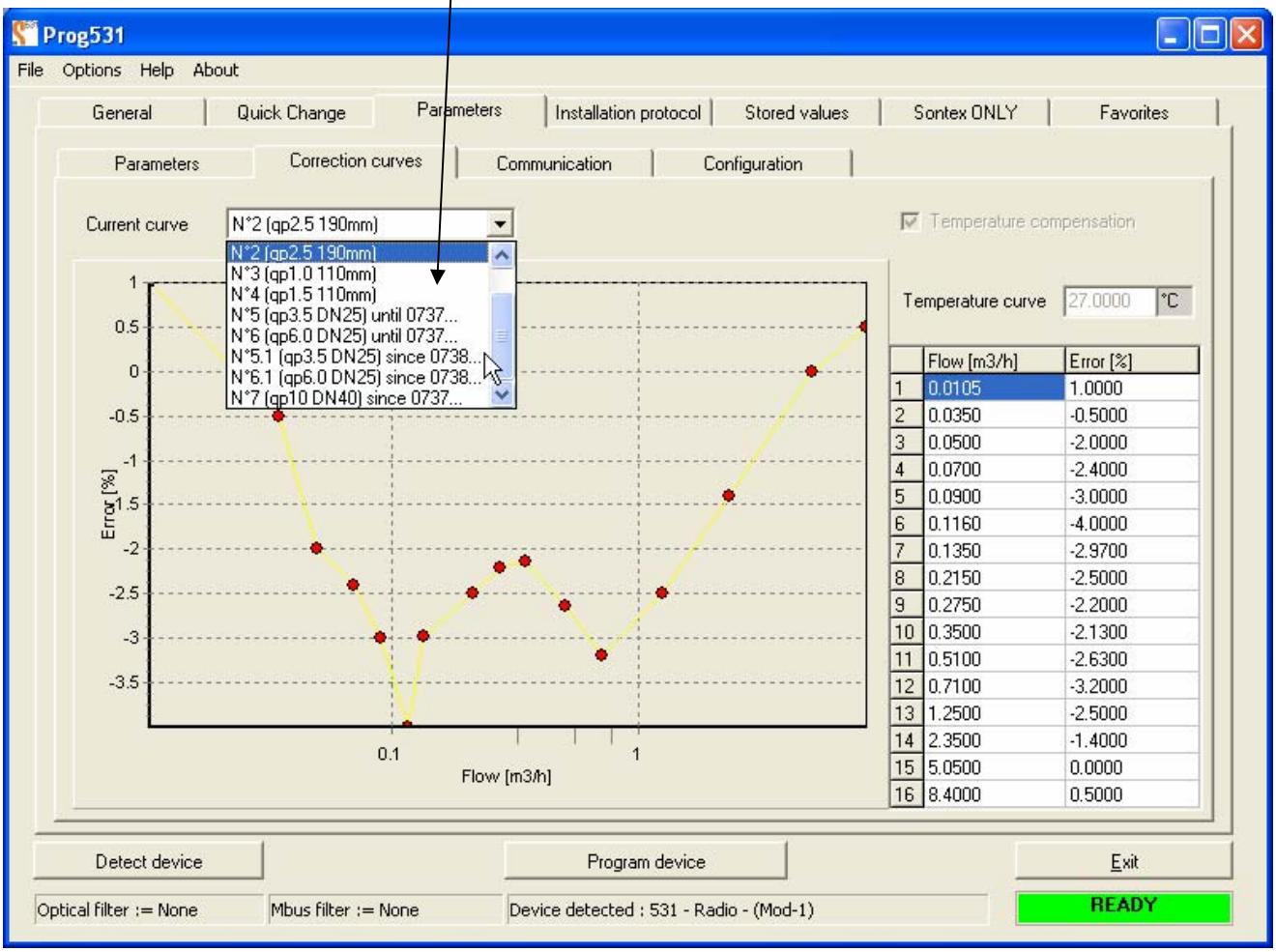
The same about the Superstatic 440 qp6.0. The correction curve (N°6) must be used with a fabrication number until **0737xxxx**. But for a new Superstatic 440 qp6.0 with a fabrication number higher than **07380000** the new correction curve (N°6.1) must now be used.

For a Superstatic 440 qp10.0 with a fabrication number until **0736xxxx, no correction curve must be activated.**

Since the fabrication number **07370000,** the correction curve (N°7) must now be used.

Warning :

The correction curve to apply on a Superstatic 440 qp3.5, qp6.0 or qp10.0 is related to the fabrication number of the Superstatic 440 !!



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