Smartgen — make your generator smart

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Version history

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008-06-18</td>
<td>1.0</td>
<td>Original release</td>
</tr>
<tr>
<td>2014-04-08</td>
<td>2.1</td>
<td>Upgrade the installation package of driver software</td>
</tr>
</tbody>
</table>
This manual is suitable for SG72 communication module only.

Clarification of notation used within this publication.

<table>
<thead>
<tr>
<th>SIGN</th>
<th>INSTRUCTION</th>
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<tbody>
<tr>
<td>⚠️ NOTE</td>
<td>Highlights an essential element of a procedure to ensure correctness.</td>
</tr>
<tr>
<td>⚠️ CAUTION!</td>
<td>Indicates a procedure or practice, which, if not strictly observed, could result in damage or destruction of equipment.</td>
</tr>
<tr>
<td>⚡️ WARNING!</td>
<td>Indicates a procedure or practice, which could result in injury to personnel or loss of life if not followed correctly.</td>
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1 OVERVIEW

**SG72 module** is a communication port conversion module which allow the conversion of USB<>RS232, USB <> RS485, USB<>LINK (Smartgen special). It is power supplied by USB port of PC.
2 FUNCTION AND CASE DIMENSION

1 USB<->RS232;
2 USB<->RS485;
3 USB<->LINK (Smartgen special port, TTL level port)
4 Case dimension: 72mm*51mm*27mm (length*width*height)

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Receive data indicator. It is flashing when the data is received successfully.</td>
</tr>
<tr>
<td>2</td>
<td>Send data indicator. It is flashing when the data is sent successfully.</td>
</tr>
<tr>
<td>3</td>
<td>Power supply indicator. SG72 module is power supplied by USB port and there is no need to connect external power supply. It is illuminated when the connection of USB port is normal.</td>
</tr>
<tr>
<td>4</td>
<td>Standard USB port. Connect to USB port.</td>
</tr>
<tr>
<td>5</td>
<td>Smartgen special port. Communicate with controller which produced by Smartgen.</td>
</tr>
<tr>
<td>6</td>
<td>Standard RS485 serial communication port</td>
</tr>
<tr>
<td>7</td>
<td>Standard RS232 serial communication port (9 pin)</td>
</tr>
</tbody>
</table>
3 DRIVER INSTALLATION

1. Do not connect SG72 to USB port before installation.
2. Find out the driver file that is provided by Smartgen, the file name is “SG72 Driver Windows.exe”.

Note: The driver is incompatible with Windows 8.1.
3. Copy this file to arbitrarily folder in hard disk. Double click the file to open it and then click the “Extract” button. The screen should now display as follow:
4. Click the “Next” button and the screen should now display as follow:

![Device Driver Installation Wizard](image)

5. The screen should now display as follow and you should waiting for the next step.

![Device Driver Installation Wizard](image)
6. SG72 module driver installation was successful and “Finish” button should be clicked to confirm the installation. The screen should now display as follow:

![Device Driver Installation Wizard]

The drivers were successfully installed on this computer.

You can now connect your device to this computer. If your device came with instructions, please read them first.

- **Driver Name**: FTDI CDM Driver Pack...
- **Status**: Ready to use
- **Driver Name**: FTDI CDM Driver Pack...
- **Status**: Ready to use

Click **Finish** button to confirm.
4 TEST/VIEW COM PORT NUMBER

1. After installation, connect the SG72 module via USB port. On the desktop, right-click “My Computer” and then select “Properties”. The screen should now display as follow:

![Image of the desktop with My Computer selected]

2. Select “hardware” item in “system property” dialog, and then click “device manger”. The screen should now display as follow:

![Image of System Properties window]
3. Click the “+” symbol before the “Ports (COM & LPT)”, The screen should now display as follow:

![Device Manager Screenshot](image1)

4. SG72 module is shown as “USB serial port (COM[x])” as it fits with USB communication port. Here is shown as COM3 (It will show different COM port according to different computer, e.g. COM4, COM5, COM6). The screen should now display as follow:

![Device Manager Screenshot](image2)
5. “USB serial port (COM3)” will disappear immediately if SG72 is disconnected with PC while appear again if SG72 is connected with PC. This operation can help identify the generated COM port after the SG72 is connected. For example: Here we take HGM6300 test software as example. In “Communication/Security”, change the COM port as same as the generated COM port in device manager. The screen should now display as follow:

![Image of software interface showing configuration settings]

Make sure that the COM port of ① and ② are consistent.