How to configure and to install the Xcom-GSM

1. Contents of the Xcom-GSM remote communication set

   Xcom-232i
   Cellular modem
   Micro SD card with adapter
   Communication cable, 2m
   Power supply cable RJ45-Jack, 0.5m
   External antenna
   Mounting plate for Xcom-232i
   Serial cable, 0.25m
   Sliding pin for mounting the modem
   2 DIN rail clips and screws

2. Additional items needed

   - Computer or mobile phone
   - SIM card

3. Mount the different products within the Studer system

   The products should be mounted on a smooth surface. The distance between the Xcom-232i and the Studer system should not exceed 10 metres. The distance between the Xcom-232i and the GSM modem is maximum 0.25m. All cables you need are provided in the set.

   ATTENTION!
   The metallic casing of the 3G cellular modem is connected to the negative battery pole. Therefore it is necessary to isolate its casing from any metallic surface.

4. Enter SIM card into the modem

   Eject the SIM card tray, situated close to the antenna connector, by pushing the yellow button next to it. Place the SIM card on the tray and reinsert it.

5. Connect the antenna to the modem

6. Wiring

   a. Connect the serial cable between the modem and the Xcom-232i
   b. Connect the power supply cable between the modem and the Xcom-232i
   c. Connect the communication cable between the Xcom-232i and the installation

7. Set the terminations

   It is very important to set the terminations correctly for the functioning of the system. With one device in the system the termination on the Studer device should be put to T as in "Terminated". With more than one device in the system all Studer devices should be put to O as in "Open" apart from the devices at the end of the communication chain. These devices should be put to T as in "Terminated".

   The termination switch next to the two RJ 45 connectors on the Xcom-232i must be set in position T.

8. Turn on the power

9. Insert the Micro SD card into the computer

   Insert the Micro SD card into the Xcom-232i

10. Run the Xcom-configurator

   Choose GSM mode. Ask the Internet Service Provider. Required for some Internet Service Providers, leave blank if not. Enter the SIM card PIN code. Leave it blank if no code.

   Generate the configuration file.

11. Take note of your GUID file

   Close the message box and a text file with your identifier (GUID) will appear. This file is saved on your "Desktop" or in "My documents". The unique identifier (GUID) is required to link your installation with your account on the Xcom portal. Keep it safe.

12. Insert the Micro SD card into the Xcom-232i

   Remove the SD card from the computer and insert it into the Xcom-232i. The setup process will start automatically and normally takes 1 second. When the LED stops blinking red, the setup is finished.

   ATTENTION!
   The Xcom-232i needs to be powered during the setup process. Otherwise, the configuration will not be taken into account.

13. Xcom connects to the server

   After the parameters are set and applied, the Xcom-GSM will automatically connect to the server and send a confirmation message to the RCC. If there is no message, the Xcom is not connected to the server. Use the FAQ at the opposite side of this Quick guide to see what could have gone wrong.

The Xcom-GSM is sucessfully installed!

Register the installation at: https://xcom.studer-innotec.com in order to control it remotely with the Xcom-GSM.
The Xcom-GSM needs to have a micro SD card inserted continuously. Communication via RS-232 connection is reversed (Ton=80% | Toff=20%). The Xcom-GSM needs to have a software version higher than 1.5.36. MicroSD card full. Error during updating.

If the installation is new and the Micro SD card of the Xcom-GSM is empty, it is normal that there is no display in the following priority order: Validate that the connection with the installation is well established, control that the RCC displays the signalization LED is both red and green simultaneously for 1.5 seconds. When inserting an SD card, the LED blinks 2x In operation. Communication (via RS-232 connection).

On 1.5s Blinks (Ton = 10 % | Toff = 90 %)

To register a new installation, the installation needs to be: Green - Continuously on. My Xcom-GSM is well-configured, but doesn’t connect to the server. What should I do? These calculations do not include the remote control usage.

The basic data usage is about 2 Mega Bytes (MB or Mo) per month. If the Datalogger is enabled, the quantity of used data will depend on the size of the installation. The Xcom system info Indication always on. 8MB Data usage with datalogger enabled per month. Enter the PUK code. Power OFF. Registered to the operator network. Server connected and transmitting data. The Xcom-LAN is running. The modem needs a lot of power to connect to the server. That is why we recommend to not exceed with the installation and commissioning of the device. Failure to follow these instructions may result in damage to the Xcom-GSM. Therefore this manual should be kept close to the device.

Xtender systems

LED states

<table>
<thead>
<tr>
<th>Color</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Power OFF</td>
</tr>
<tr>
<td>Green</td>
<td>Registered to the operator network</td>
</tr>
<tr>
<td>White</td>
<td>Server connected and transmitting data</td>
</tr>
<tr>
<td>Red &amp; Green</td>
<td>Always on</td>
</tr>
<tr>
<td>Red &amp; White</td>
<td>Fast blinking (200ms ON, 200ms OFF)</td>
</tr>
<tr>
<td>Green &amp; White</td>
<td>Slow blinking (800ms ON, 800ms OFF)</td>
</tr>
</tbody>
</table>

The installation and commissioning of the communication sets must be entrusted to skilled and qualified personnel perfectly aware of the safety precautions and local rules in force. The installation, commissioning, use and maintenance of this device cannot be supervised by Studer Innotec SA. For this reason, we do not accept any liability for damages, costs or losses generated by the installation and commissioning of the device. Failure to follow these instructions might constitute a lethal physical danger but can also damage the functionalities of the device. Therefore this manual should be kept close to the device.

For any installation, the local and national norms and regulations in force must be strictly followed.

Warnings

• The installation and commissioning of the communication sets must be entrusted to skilled and qualified personnel perfectly aware of the safety precautions and local rules in force.
• All components connected to this device must be considered as hazardous and regulated in force. Persons without written authorization from Studer Innotec SA are forbidden to do any change, modifications or repairs whatsoever. Regarding authorized modifications and replacements, only genuine components shall be used.
• This device is meant for indoor use only and must under no circumstances be exposed to rain, snow or any other humid or dusty environment.
• If used in motor vehicles, this device must also be protected against vibrations by shock absorbing components.

EU DECLARATION OF CONFORMITY

The communication set Xcom-GSM described in this manual meet the requirements specified in the following EC Directives and norms:

- EN 55020:2015

Remote communication set for Xtender systems

Quickguide