

## Switching of communication method with a Stylitis-41 or 101 data logger: via a SCADA system and a GSM modem.

Symmetron [Sym-o-net](#) modem, besides the capability of communicating via **one modem with up to 3 different serial devices** (one at a time), it has also the reverse capability: You can communicate with **one device** via **3 different communication systems**, such as a **GSM/GPRS modem**, an **RF modem**, **Bluetooth**, **Ethernet**, **WiFi**, **optic fibers**, etc, on demand or via a time schedule. In other words, it can act as a **multiplexer**.

### Applications

This feature may be rather useful in applications which use a **main automated communication system**, such as a **SCADA system** via optic fiber, while via one or two **secondary systems**, such as a **GSM/GPRS modem**, an **RF modem**, etc, the user may perform a **quick review** of the measuring system or **download data files**. Fields of such applications may be:

- Wind Farms
- Solar Plants
- Internal telemonitoring networks, etc

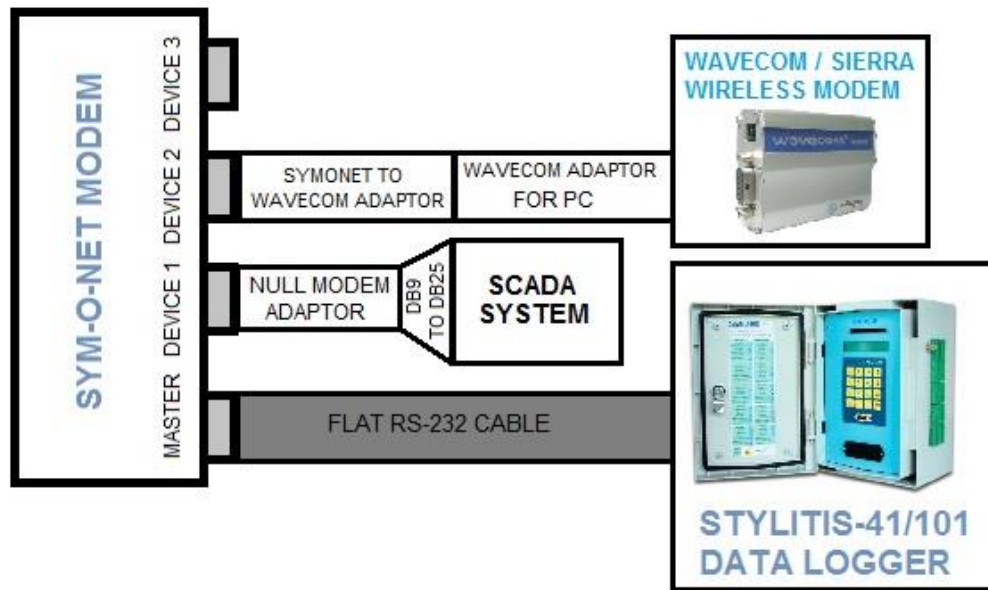
An example of this application is the following.

### Connection of the data logger via a SCADA system and temporary connection (on demand) via a Wavecom Fastrack Supreme/ Sierra Wireless Fastrack Xtend modem

A [Stylitis-41](#) ή [Stylitis-101](#) data logger will be permanently connected to the SCADA system, which will be connected to Symonet's DEVICE 1 port (the Symonet will be programmed to have DEVICE 1 permanently active). Moreover, the user will be able to interrupt this connection temporarily, via a **GSM data call** to a **Wavecom Fastrack Supreme** or **Sierra Wireless Fastrack Xtend** modem, which will be connected to Symonet's DEVICE 2 port, for a **quick review** of the measuring system or to **download data files**. After the connection is achieved, the data logger is disconnected from the SCADA system and it is connected to the modem.

**ATTENTION:** After the connection is achieved, the connection must not remain inactive (with no data transmission) for more than 40 seconds. If this happens, the Symonet returns to DEVICE 1, therefore you must disconnect from the modem and connect again (new data call).

### Connection.



- Connect the data logger to Symonet's MASTER port.  
ATTENTION: The data logger must be in **CONTINUOUS MODE**! This is required in order for the MASTER port to be activated.
- Connect DEVICE 1 to the SCADA system, via a NULL MODEM ADAPTOR and a 9-pin to 25-pin cable adaptor.
- Connect DEVICE 2 to the Wavecom/ Sierra Wireless modem, via the suitable adaptor and the modem adaptor for PC.  
ATTENTION: Make sure to connect the adaptor to the Symonet and the modem from the correct side, as noted on the adaptor.

### Expansions

- If you wish (if a different connection suits you), you may use any 2 of Symonet's 3 DEVICE ports for the SCADA system and the modem respectively.
- You may use any other modem (GSM/GPRS, RF, etc) you wish and connect it to Symonet via the appropriate adaptor .