

ETHERNET

NETBUS (Wired Internet Device) – Technical Manual V1.0

Introduction	1
System startup	2

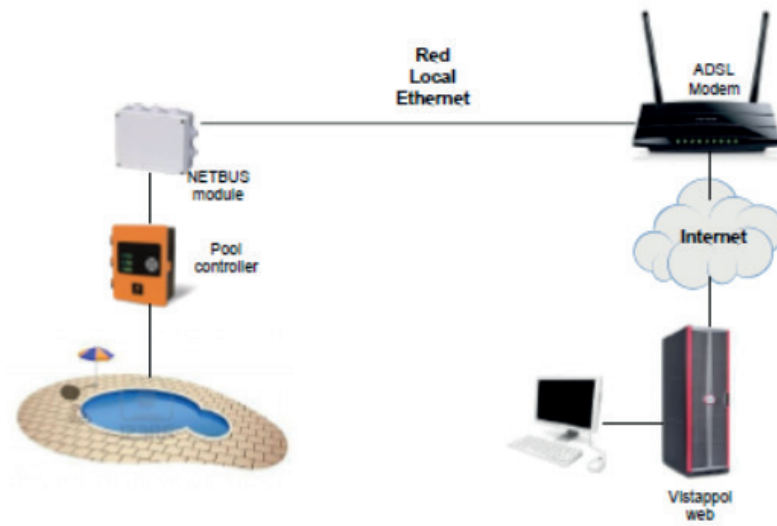


Introduction

NetBus is a module developed by Sugar Valley, designed to enable the connection of Sugar Valley devices to VistaPool.

The NetBus module also enables cooperation with the PoolShow system from Sugar Valley, to display the pool parameters.

This module enables a wired connection to the Internet and replaces the already known wireless solution based on a WIFI module.



NETBUS module

pool Controller

red local ethernet

ADSL modem

Internet

Web Vistappol



Important:

In order to work properly, the NETBUS module and the PoolShow display system must be connected to **the same local network**.

The user guide provides instructions for low-level access to various operating functionalities of the device and IMPORTANT information needed to generate a firmware update file. We therefore **suggest that this document is kept for Sugar Valley's internal use only**.

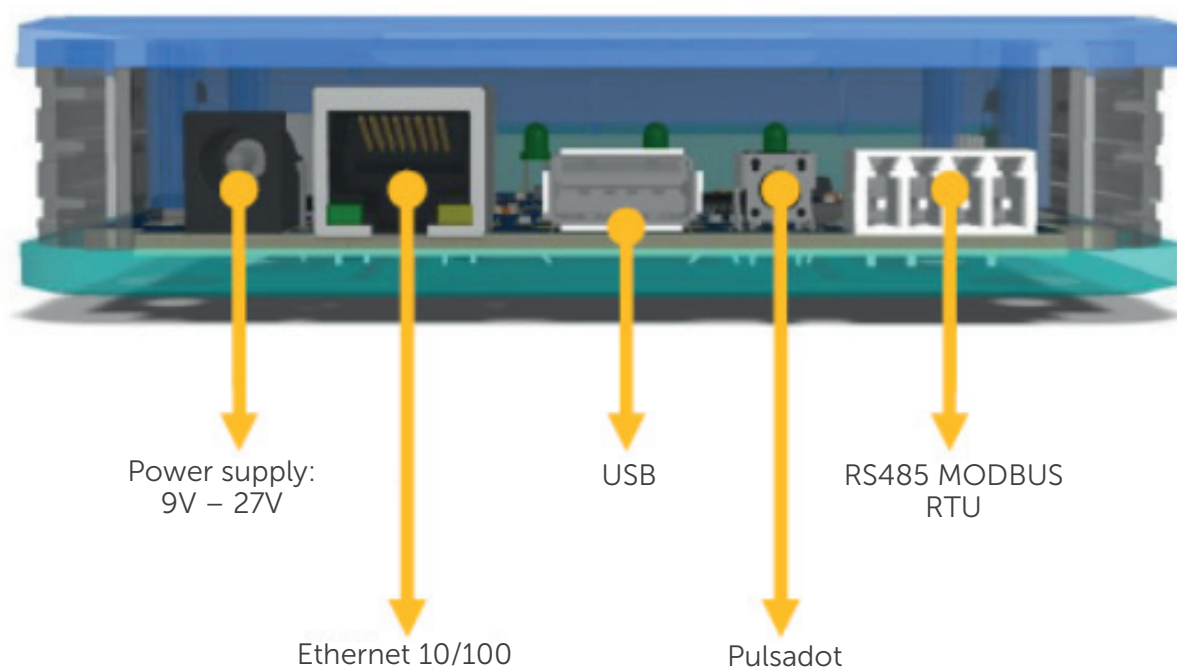
System startup

The NetBus box contains the following:

- ➔ NETBUS module
- ➔ MODBUS RTU connection cable
- ➔ Ethernet cable

The device can be powered from an external 12V adapter or directly from the device.
To install the device:

1. Connect the NETBUS module as follows:



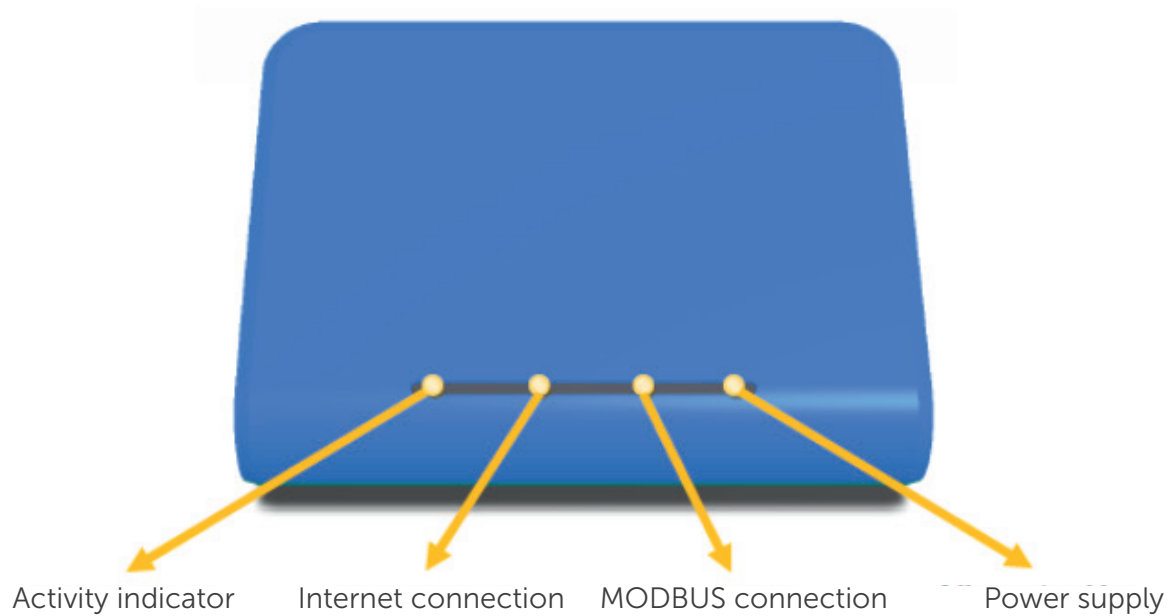
The Ethernet port must be connected to an available router/switch.

The RS485 port of MODBUS RTU needs to be connected to the connector of your Sugar Valley device, marked as WIFI.

2. Once connected, activate the power switch on your Sugar Valley device and wait for one minute.
3. Configure your Internet connection according to the instructions in the Sugar Valley user guide (Main Menu > Settings > Internet > Settings). DHCP server is recommended as the connection method, but if you wish, you can use a fixed IP address.
4. After the setup is completed, make sure your device is connected to the Internet. If not connected, restart to ensure that the configured parameters are applied.

The correct function of the device is indicated by the status of the 4 LEDs of the NETBUS module.

System startup



Indicator	Off	Flashing	On
Power supply	The device is turned off and does not work. Check the power supply.	-----	The device is connected to a power supply.
MODBUS connection	Device search not started.	The device is searched for within the MODBUS network. Wait for 1–2 minutes.	The device was found and identified.
Internet connection	Internet access is not configured. Wait until the search for the device in the MODBUS network is completed.	Internet connection is being established. Wait for 1–2 minutes.	The device is connected to the Internet.

Under normal conditions, the activity indicator will flash depending on the current network traffic.

If the three LEDs on the right are permanently on and the LED on the left flashes, the device is working properly.