Swegon

INSTALLATION
GOLDen GATE, TBLZ-1/2-1-3-41

1. GENERAL

The TBLZ-1/2-1-3-41 Communication unit is designed for use together with the GOLD Air handling unit, Version 4, A and B.
The unit consists of the following components:

1. 4-module standard enclosure for DIN busbar installation to IP20.
2. 9-pin D-subconnector for connection via serial cable to the GOLD or modem.
3. Power supply terminals, 10-30 V AC/DC, 50 mA at 12V (see label).
4. RJ-12 jack for connection to the GOLD via special cable if 2.is used for the modem
5. RJ-12 jack for Ethernet connection.
6. Digital input terminals.

Other features:

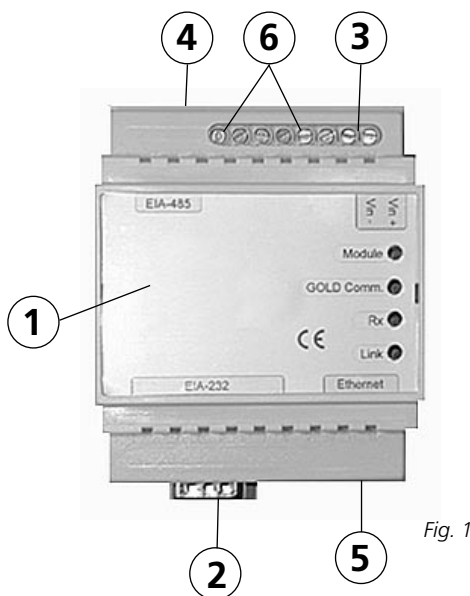Module LED.
RX LED.
Link LED.
GOLD Comm. LED.

Fig. 1

2. SAFETY PRECAUTIONS

Be careful whenever you do any wiring to the unit. Never carry out any work on the unit while the power supply is switched on. Doing so could harm you and damage the unit. Observe local electrical safety regulations as you install the unit.

3. INSTALLATION

3.1 General

Connect conductors to the V in+ and V in- terminals (see Fig. 1) of the GOLDen GATE unit and wire them to a separate power supply unit with the correct capacity or to the 12 V DC or 24 V AC terminals of the GOLD air handling unit.
Configure the communication unit using the configuration program GOLDen GATEConfig available from our website address: http://www.swegon.se. Install the program according to the instructions in the setup window.

Specifications are subject to alteration without notice.

This configuration requires the use of a computer with Windows 98 SE or better and an Ethernet port. Use a twisted-pair cable or connect both the unit and computer to the same network. Start the configuration program and select Ethernet, see Figure 2. The program will now scan the network to seek the GOLDen GATE unit. All the units connected are shown on a list, see Figure 3.

Double click on the unit desired and enter the IP addresses. As standard, "admin" is used both as the user name and the password, see Figure 4. The unit can be configured via our integrated webpage for both mail, master and PPP function with links to other GOLDen GATE units in the same network.

If you know the IP address, you can also configure the unit via its own built-in webpage. After you've saved your settings, you'll have to reboot the unit before your settings will be effective. Locate the communication unit next to the junction hood on the GOLD air handling unit. Depending on the enclosure requirements called for by the application, an extra enclosure conforming to a higher enclosure class may be required. Connect the network.
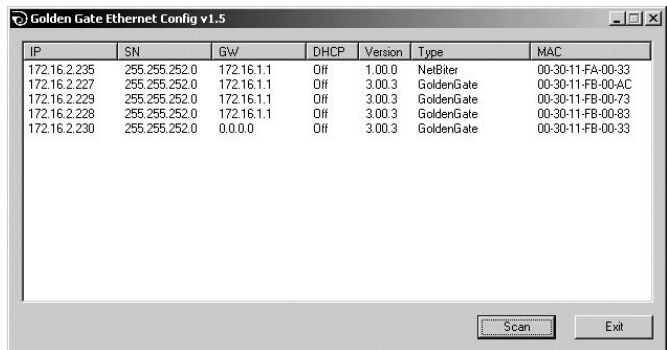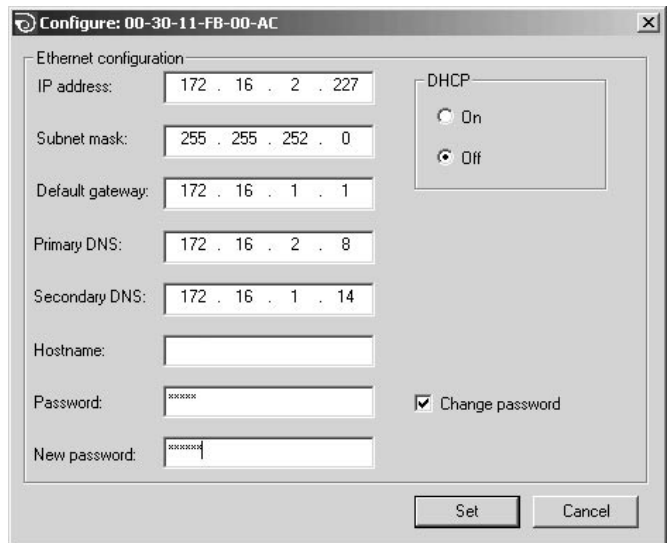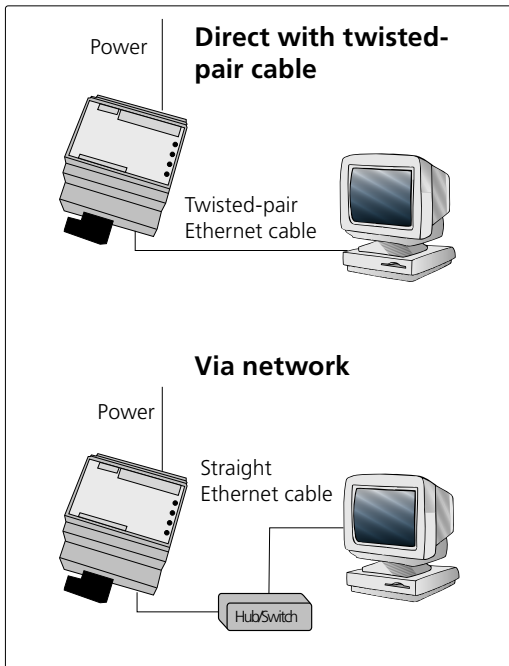

Direct with twisted-pair cable

Power

Twisted-pair Ethernet cable

Via network

Power

Straight Ethernet cable
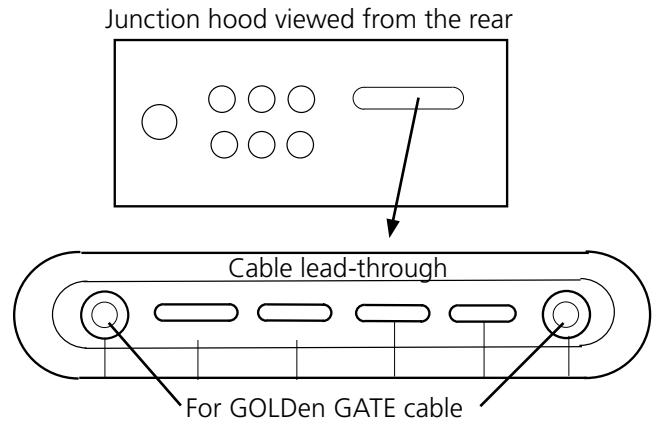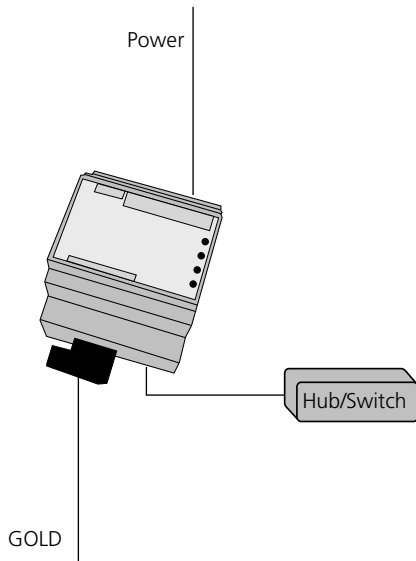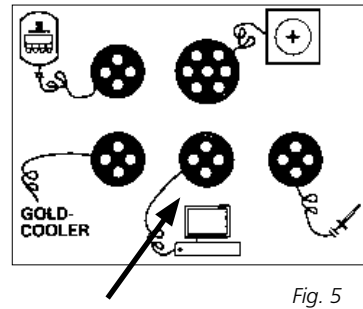
Hub/Switch

Fig. 2

Fig. 3

Fig. 4

3.2 GOLD Version 4/A

Connect the serial cable supplied with 9-pin D-subconnec-tor and circular connector to the socket on the GOLD (see arrow in Fig. 5).

3.3 GOLD Version B

Run the serial cable supplied through the GOLD air hand-ling unit cable lead-through and connect it to the socket located inside the GOLD (see Fig. 6 and 7).

Fig. 5

Power

Hub/Switch

GOLD

Junction hood viewed from the rear

Cable lead-through

For GOLDen GATE cable

*Fig. 6*

4. COMMISSIONING

4.1 GOLD Version 4/A

Set the LON Communication to "0" in the service menu.

4.2 GOLD Version B

GOLD units with Program Version 1.11: DIP-switch 3 must be in the ON position and DIP-switch 4 in the OFF position on the GOLD AHU control unit: (see Fig. 7).
GOLD units with Program Version 1.12 and better: DIP-switch 3 must be in the OFF position and DIP-switch 4 must be in the in the ON position on the GOLD AHU control unit (see Fig. 7).

Control unit

Dipswitch

*Fig. 7*
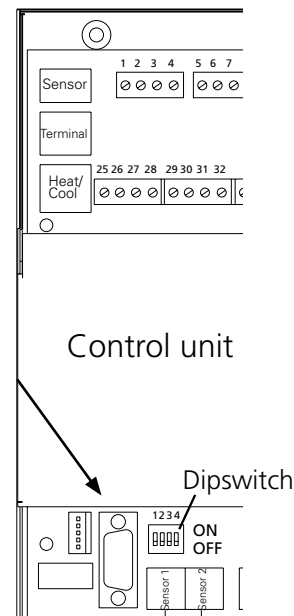
5. DIGITAL INPUTS

(Applicable to Program Version 4.00.0 and newer)

5.1 General

The unit is equipped with 2 digital inputs. The status of the inputs can then be read as 2 parameters in the report (Digital in 1 and Digital in 2) via the network.
If the built-in web page is used, the inputs are designed for forwarding alarms. Provision is available for free alarm text and input inversion. It is also possible to e-mail alarms.

5.2 Electrical connection

The digital input is rated for a 10-30 V DC supply. The control unit of the Version B GOLD units has terminal blocks for supplying 12 V DC current.
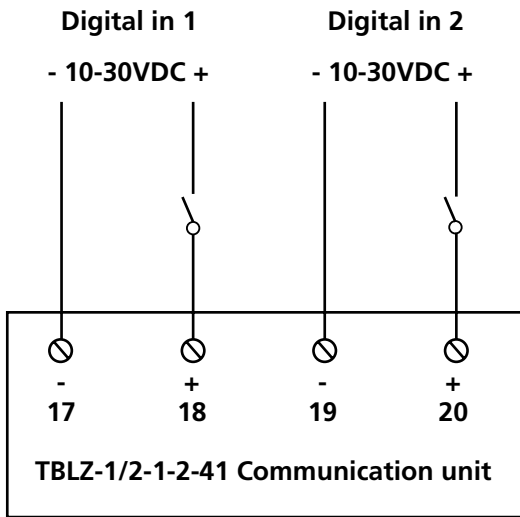
6. MODEM

This unit has support for connecting a modem to the network. An external modem is required, as well as a special cable for interconnection with the GOLD. In this way, one or more GOLD air handling units can be monitored via one modem. In the event of an alarm, an alarm message is e-mailed to the user who can then establish a connection via modem to the network and use the web interface available to him. A browser with support for Java is required. See the web instructions for particulars of how to configure this function.

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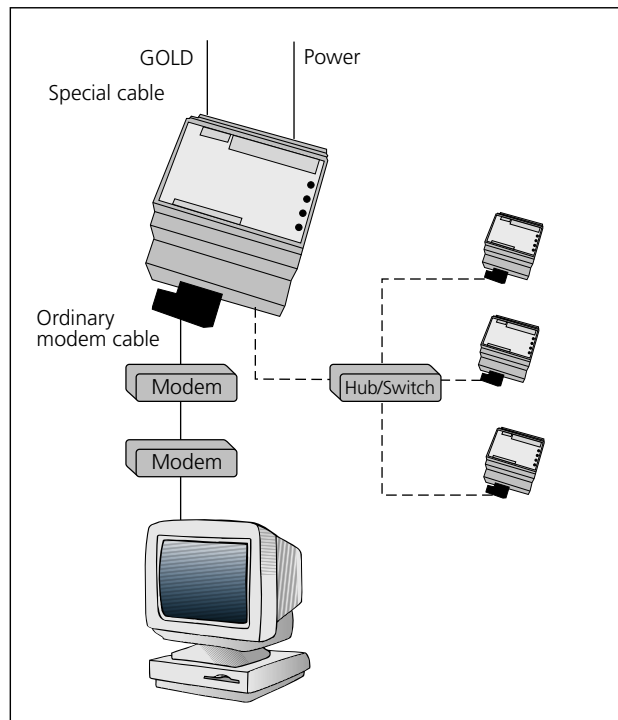
7. GENERAL EXPLANATIONS

Module LED

LED shines orange during start-up; then shines green while the unit is energized.
LED flashes green while configuration is in progress.
LED flashes red if the memory malfunctions.
LED shines red in the event of a serious fault in the hardware.

GOLD Comm.

LED flashes green while communication between the GOLD and the GOLDen GATE is in progress.
LED shines red if an error in communication occurs between the GOLD and the GOLDen GATE.
LED is not lit while there is no traffic between the GOLD and the GOLDen GATE.

RX

LED flashes green while there is traffic on the Ethernet network.

Link

LED is not lit if a link to the Ethernet network i is down; shines with a steady green glow if the unit is connected to a 10 Mbit/s network.
LED shines with a steady orange glow if the unit is connected to a 100 Mbit/s network.

The various parameters available and protocol-specific properties are documented in separate product leaflets. These leaflets can be downloaded from our website: www.swegon.se.

The GOLD air handling unit operates independently regardless of whether or not the network is active.