

Greenspec AFP Nano line repeater

Art. nr. 1201.2

The Greenspec greenhouse automation system works with an optical fibre cable that transmit the information through the greenhouse. New is the AFP Nano unit, in three variations:

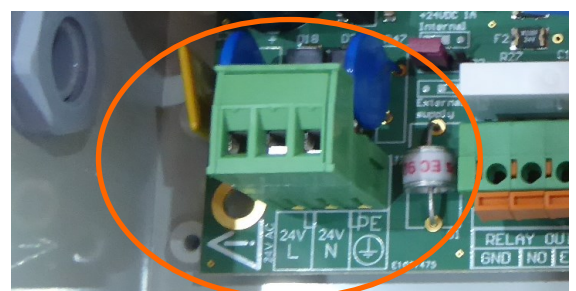
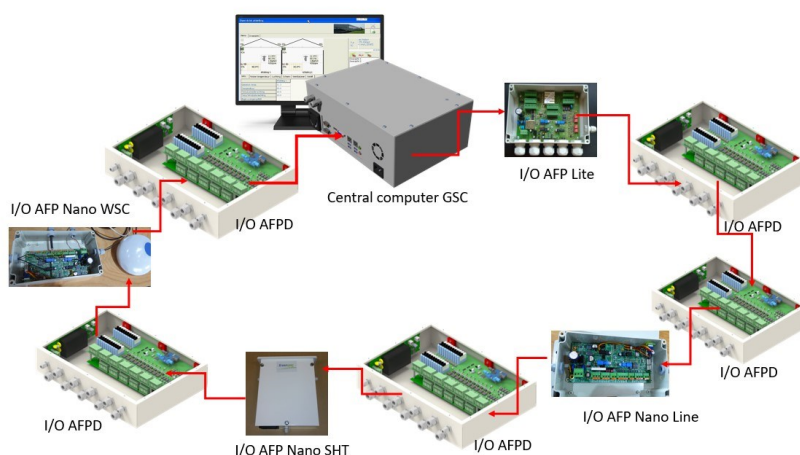
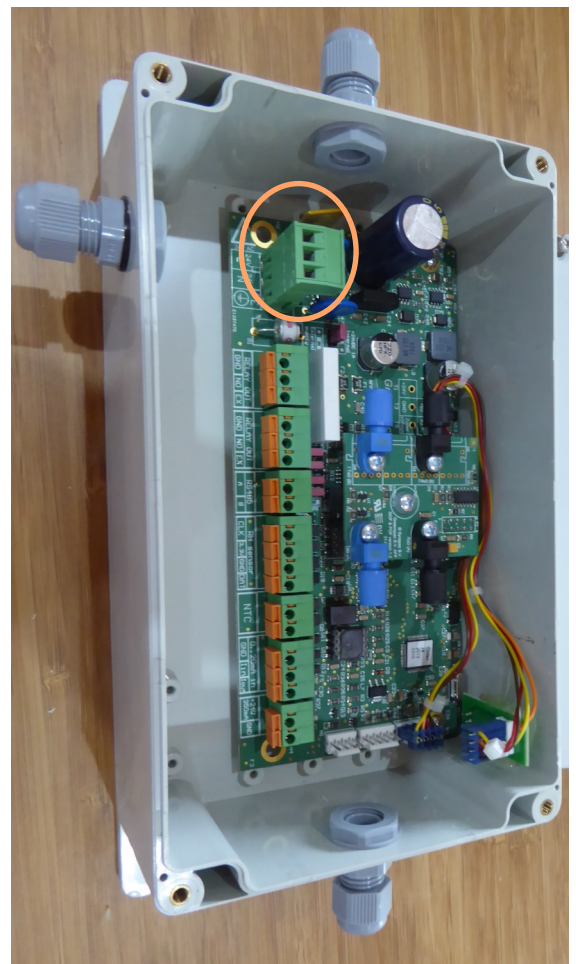
- **AFP Nano line repeater**
- AFP Nano line transmitter plus connector for the Thies WSC11 meteo station: the **AFP Nano meteo**
- AFP Nano line transmitter plus inbuilt temperature and relative humidity sensor: the **AFP Nano Measurement box**

These small practical units will help you in your greenhouse data transmission. You connect them into the optical line and you connect to a power supply.

The **AFP Nano line repeater** is an alternative to the AFP Lite. On the next page a comparison. **In the box you find an extra line of connectors, not active in the line version.**

The line repeater function is needed to keep the signal stable over a longer distance. Up to 120 m in a greenhouse your signal is stable. But at a long distance place a Line repeater. Installation is very easy:

- Open the box.
- Fix the optical cable on both sides of the Nano unit.
- Make a connection to L and N with either 12-24V DC or 12-24 V AC, see the orange circle. The polarity is not important. Close the box.
- Once you have powered the system and the optical line is running, you see a signal on the unit.



Connection to the optical fibre line

For the connection of the optical fiber you have to lead the optical fibre to the unit. Then the right length has to be cut with the special cutting tool, it is important that the cut is straight. The connection is double wire, always the line coming out from the blue side of the last AFP has to go into the black one of the AFP Nano and vice versa for the blue one. Use automatic discovery wizard for easy connection.

Activate the AFP Nano in the software:

The AFP Nano versions will be recognised on the software as a AFP. When you put the AFP Nano in the line, for the different ones a different procedure is started.

The AFP Nano line reinforcer has no functions to activate, so you only see that it is recognised, with that you are ready.

(see the manual chapter Setting up the computer system\automatic discovery wizard and activating the AFP in the software)

Technical specifications

General data	Greenspec AFP Nano Line repeater
Mechanical construction	Dimensions (L x BxH) 200x125 x75 mm, Weight approx. 0.5 kg, , Cable gland 4 x Pg 13.5
Materials	Housing PP, electronics board
Input parameters	-
Output parameters	-
Electrical connection data	Power supply 12-24 VDC , 12-24V AC Power consumption 5 W
Process conditions	Operating temperature range 0 ... +70 °C
Ambient conditions	Storage temperature -10 ... +50 °C Ingress protection : not watertight Electromagnetic compatibility acc. to EN 61326:1997 / A1:1998 Subject to modification.



Horticulture automation
Groningen, The Netherlands
www.greenspec.nl / info@greenspec.nl