

D-TECT

Serial bus radio interface

User manual

NE41 08002- 02 V2.3

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EU Notes

When the device is used it complies to essential requirements and relevant provisions. A complete Declaration of Conformity can be obtained from the internet address:

www.neat-group.com/documentation/downloads



US Notes

FCC ID: 2AGLF0923901

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



A handwritten signature in black ink, appearing to read 'Ulrik Lundberg'.

Ulrik Lundberg
Managing director

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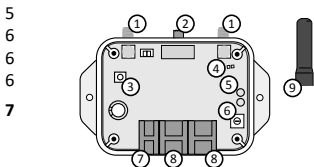
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1 In the package

3	1 x D-TECT unit
3	2 x Antenna
4	1 x This user manual

4 Should any part be missing, please
4 contact your distributor.

2 Hardware overview



Denomination

1	Antenna connector x 2
2	Power switch
3	Not used
4	Jumper J1
5	LED x 2
6	Rotary switch
7	AC/DC adapter connector
8	Serial bus connector x 2
9	Antenna x 2

3 Installation

1. Open the cover and select the bus address by turning the rotary switch to the desired address value, 1-9 or A-F.



The value of the rotary switch must be set to other than 0 (zero) for the unit to work!

2. Close and fasten the lid using the screws supplied.
3. Connect the antennas by screwing them into the antenna connectors.
4. Mount the D-TECT unit in an appropriate place.
5. Connect one or two cables for the serial bus and central power supply to the two connectors marked **BUS**.
6. If no central power supply is used, connect an AC/DC-adaptor to the jack marked **DC**. Then connect the AC/DC adapter to a mains outlet in the apartment.



Only use AC adaptor for your region, see Technical Data.

7. Turn on the D-TECT unit with the power switch marked **ON OFF**.

4 LEDs

The green LED marked **POWER** burns with a steady light when the unit is powered on.

The red LED marked **ACTIVITY** blinks to indicate that D-TECT is communicating on the serial bus.

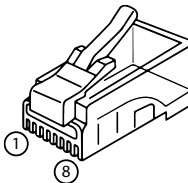
If both the red and the green LED is blinking in phase with each other, the D-TECT unit is not working properly. Please contact NEAT Electronics or your local distributor.

Jumper J1

Jumper J1 is a 100 Ω termination of the serial bus and must be mounted on the **LAST** D-TECT if the total length of the serial bus is $> 500\text{m}$.

5 Connection

The serial bus cable is connected as shown in the image below.



Connection

1	RS-485 bus, wire A (-)
2	RS-485 bus, wire B (+)
3	Not connected
4	24 V _{DC}
5	Common ground
6	Not connected
7	24 V _{DC}
8	Common ground

6 Important

6.1 Safety Notes

- Read instructions prior to use.
- Always test the system per instructions prior to use and always check the function of the product after making adjustments.
- This product may not be suitable for all persons.
- This product should not be a substitute for the routine visual monitoring protocol by caregiver and must not be used in situations where a delay in the arrival of appropriate medical care, could lead to a potentially life-threatening situation.
- Our units are NOT intended for any life support device, thus intending a device whose malfunction may result in damage to a life.
- Check the device regularly and replace when necessary.
- Do not integrate to other systems other than those specified in this document.
- The product will not cause electromagnetic disturbances under normal working conditions.
- The product can be placed near other products or devices as long as mechanical vibration is not present.
- Remove batteries if the unit is to be out of use or stored for an extended period of time.

6.2 Use

- Use only original parts.
- Keep away from dust, moist and dirt.
- Do not drop, knock, twist or shake the device.
- Do not warm up the device or use it near fire.
- The product may not be painted.
- For repairs, contact a NEAT dealer.

6.3 Cleaning

- All parts in the product kit can be cleaned with a mild soap solution and a damp cloth. Dry with a dry cloth.
- Strong chemicals, grease and other harsh substances must not be used when cleaning or handling the parts in the product kit.
- The product must be disconnected from the power socket before cleaning.
- After cleaning, control that the product works properly by sending a test alarm to the alarm receiver/central.

6.4 Disposal

At the end of the product's use life, please dispose of it at appropriate collection points provided in your country. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (EIA, www.eiae.org). In the European Union, the bin label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling or returned to NEAT Electronics.

7 Technical data

Measures (W x H x D)	111 x 67 x 28 mm (111 x 111 x 28 incl. antennas)
Weight	105 g (incl. antennas)
Power supply	10-24 V _{DC} , 3W
Power consumption	125 mA @ 24 V _{DC}
Temp. range	+5 - +55°C
RF-Frequency - EU	869.2 MHz (Social alarms) Category 1, 869.4 MHz
RF-Frequency - Non EU	906.2, 916.2, 916.4 MHz
Max transmission power	10 mW
Bandwidth	25 kHz
Serial bus type	RS-485 multi drop



The frequencies for each market are programmed during production and not changeable by the user.

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