

## BASE UNIT



SOFTWARE HD35-AP-S INCLUDED

### HD35-AP-W-E

Art. no. 608723

Base unit, USB output, Wi-Fi and ethernet interface

### HD35-AP-G-E

Art. no. 609450

Base unit, USB output and GSM module

#### General:

Device acting as an interface between the network data loggers that are positioned in the measurement sites, and the PC. It receives via wireless the data acquired by the remote data loggers and communicate with the PC via the USB output, the GSM connection or the Ethernet or WIFI local network.

Does not require the installation of USB drivers.

Directly powered by the USB port of the PC, if connected, or by the external 6 V DC power supply. Internal backup battery.

If the PC is not connected, the internal memory allows the storage of the measurement data received from the data loggers (the memory is managed in circular mode: when the memory is full, the oldest data are overwritten by the new ones).

Acoustic alarm with internal buzzer. Configuration via HD35-AP-S software. Wall mount removable (by using the included support) or fixed (with optional flanges) installation.

#### Specifications:

<b>Power supply:</b>	Internal 3.7 V lithium ion rechargeable battery, capacity 2250 mA/h, JST 3-pole connector
<b>Power consumption:</b>	30 mA without Ethernet/Wi-Fi and with typical GSM activity (**), 160 mA with Ethernet, 275 mA with Wi-Fi
<b>Battery autonomy (typical):</b>	3 days if not connected to the local network and with typical GSM activity (**), 11 hours with Ethernet, 8 hours with Wi-Fi
<b>Transmitting frequency:</b>	868 MHz
<b>Antenna:</b>	Whip external
<b>Transmitting range:</b>	See table on page before
<b>Serial outputs:</b>	USB with Mini USB type connector (cable HD35-CP23)
<b>Ethernet connection: (Only HD35-AP-W-E)</b>	Permits (if the Internet connection is available) sending alarm via e-mail and the recorded data via e-mail or to an FTP address (***). Allows the MODBUS TCP/IP protocol.
<b>Wi-Fi connection: (Only HD35-AP-W-E)</b>	Permits (if the Internet connection is available) sending alarm via e-mail and the recorded data via e-mail or to an FTP address (***). Allows the MODBUS TCP/IP protocol.
<b>GSM connection: (Only HD35-AP-G-E)</b>	For sending alarm e-mail or SMS and data via e-mail or FTP (***). Allows the GPRS TCP/IP protocol.
<b>Internal memory:</b>	The number of samples that can be stored depends on the type of data loggers connected. The capacity is 226,700 samples if all the data loggers record 7 quantities.
<b>LED indicators:</b>	Presence of external power supply, battery charge level, RF communication status
<b>Working temperature and humidity range:</b>	-10 ... +60 °C / 0 ... 85 % RH not condensing
<b>Housing</b>	
<b>Material:</b>	LURAN® S 777K
<b>Dimensions:</b>	135 x 86 x 33 mm (excluding antenna) (H x W x D)
<b>Installation:</b>	Wall mount support (supplied) for removable installation or flanges (optional) for fixed installation
<b>Scope of supply:</b>	Device, battery HD35-BAT1, software HD35-AP-S, wall mount support HD35-03, power supply

(\*\*) The intensive use of the GSM transmission can significantly increase the power consumption and reduce the battery life.

(\*\*\*) In the basic version, the data are sent via FTP with an interval of not less than 2 minutes and only if in the network there are up to 5 data loggers. For the full FTP functionality, the PLUS option has to be requested.

Accessories p.r.t. page 163

## TEMPERATURE WIRELESS DATA LOGGER



### HD35ED-L-N/3-TC-E

Art. no. 608642

3-input temperature wireless data logger for NTC sensor temperature probes with cable (probes not included)

#### General:

HD35ED-L-N/3-TC-E stores the measures in its internal memory (42,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

#### Specifications:

##### Temperature

<b>Sensor:</b>	NTC 10 kΩ @ 25 °C
<b>Measuring ranges:</b>	-40 ... +105 °C (the measuring range can be limited by the operating temperature of the used probe)
<b>Resolution:</b>	0.1 °C
<b>Accuracy:</b>	±0.3 °C in the range 0 ... +70 °C ±0.4 °C outside

##### Instrument

<b>Transmission frequency:</b>	868 MHz
<b>Transmission range:</b>	300 m (E, J) / 180 m (U) in open field (can be reduced in presence of obstacles or adverse atmospheric conditions)
<b>Logging interval:</b>	1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
<b>Power supply:</b>	Non rechargeable lithium thionil chloride (Li-SOCl <sub>2</sub> ) internal battery, 3.6 V, AA format, 2-pole Molex 5264 connector
<b>Battery life:</b>	2 years typical (without repeaters, measurement interval 5 s and log interval 30 s)
<b>Operating conditions:</b>	-20 ... +70 °C / 0 ... 85 % RH non condensing
<b>Dimensions:</b>	135 x 102 x 33 mm (excluding the probes) (H x W x D)
<b>Housing:</b>	LURAN® S 777K
<b>Protection degree:</b>	IP 64
<b>Scope of supply:</b>	Device, battery, wall mount support HD35-03; For configuration a basic unit HD35-AP-... (see page 156/157) is required. <b>NTC probes have to be ordered separately.</b>

#### Necessary accessories:

##### DTP35N-1-3-C

Art. no. 608740

NTC 10 K Ω, temperature range -20 ... +75 °C, Ø 5 x 40 mm, temperature sensor, 3 m cable length, 4-pole M12 connector

Additional accessories p.r.t. page 163