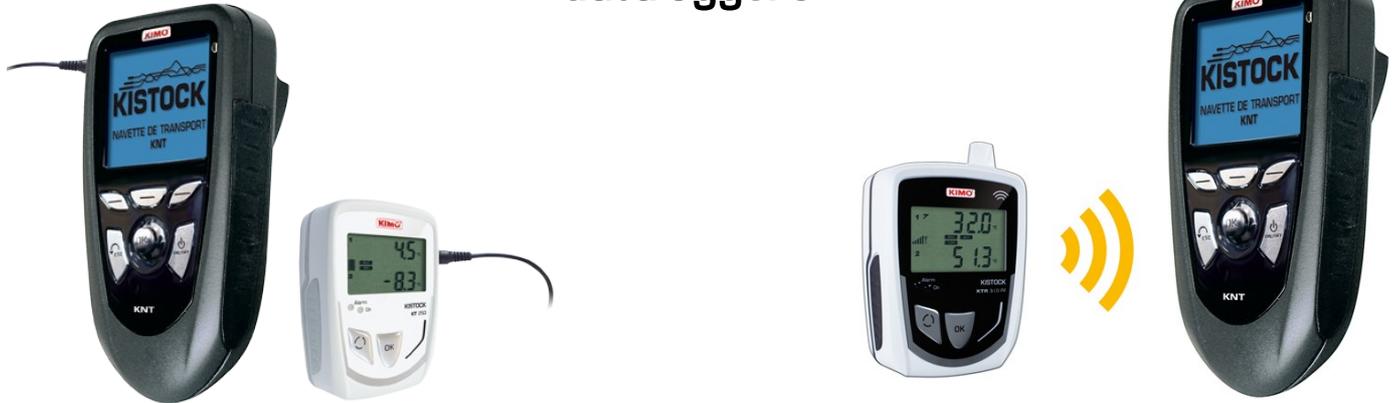


KNT 310

Data recorder and data reader for KISTOCK dataloggers



KEY POINTS

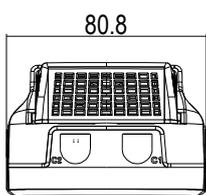
- Compatible with **wireless Kistocks, wired kistocks 2010 and previous ranges**
- Possibility to record up to **50 datasets**
- Possibility to view real-time measurements from a kistock datalogger

TECHNICAL FEATURES

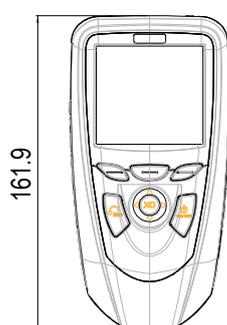
Storage capacity	500 000 points or 50 data sets
Speed of data transfer	From kistock to data recorder : 400 values/second From data recorder to PC : 1000 values/second
Operating temperature	From 0 to 50°C
Storage temperature	From -20 to +80°C
Radio span (in free field)	300 m
Frequency	868 MHz
Data storage	In the data recorder until downloading on PC

DIMENSIONS (mm)

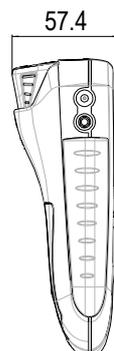
• Top view



• Front view



• Side view



FEATURES OF HOUSING

Weight

340 g

Display

Graphic display 128 x 128 pixels
Dimensions : 50 x 54 mm
Blue backlight

keypad

Metal-coated
5 keys and 1 joystick

Conformity

Electromagnetical compatibility
(as per NF EN 61326-1 standard)

Material

Compatible with food-industry environment
Shock-proof ABS housing

Protection

IP54

Power supply

4 alkaline batteries 1,5V LR6

Environment

Air and neutral gases

Auto shut-off

Adjustable from 0 to 120 mn

USING DATA RECORDER

• Data downloading from a wireless kistock to data recorder

Before downloading data stored from a kistock datalogger, this kistock has to be registered in the data recorder.

See kilog RF user manual to register a datalogger in the data recorder.

- > Turn on the data recorder.
- > Go to **"Kistock"** with left and right arrows then press **OK**.
- > Select **"RF Connection"** with up and down arrows then press **OK** (see fig.1).

A progress bar then the list of registered kistock are displayed.

- > Select the Kistock to download with up and down arrows then press **OK** (see fig.2).

Connection screen then **"Infos"** screen are displayed. This last screen displays the kistock serial number, dataset name and number of dataset point.

From this screen :

- > Select **"Discharge"** with left and right arrows then press **OK**.

Discharge screen with its progress bar is displayed.

When discharge is finished :

- > Select **"Display"** then press **OK** to visualize main features of the dataset : type of Kistock, serial number, dataset name, dates of beginning and end, number of measurements and of registered channel with minimum and maximum values for each channel (see fig.3).

Or

- > Select **"New dataset"** then press **OK** to launch a new dataset.

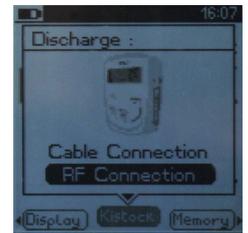


Fig. 1



Fig. 2



Fig. 3

• Discharge data from a wired kistock to the data recorder

- > Connect the data recorder and the kistock with the cable.
- > Turn on the data recorder.
- > Go to **"Kistock"** with left and right arrows then press **OK**.
- > Select **"Cable Connection"** with up and down arrows then press **OK** (see fig.4).

A progress bar is displayed « **Infos** » screen. This last screen displays the kistock serial number, dataset name and number of dataset point.

From this screen :

- > Select **"Discharge"** with left and right arrows then press **OK**.

Discharge screen with its progress bar is displayed.

When discharge is finished :

- > Select **"Display"** then press **OK** to visualize main features of the dataset : type of Kistock, serial number, dataset name, dates of beginning and end, number of measurements and of registered channel with minimum and maximum values for each channel (see fig.5).

Or

- > Select **"New dataset"** then press **OK** to launch a new dataset.

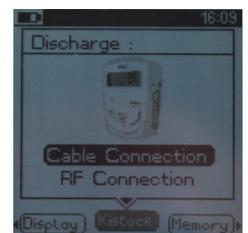


Fig. 4

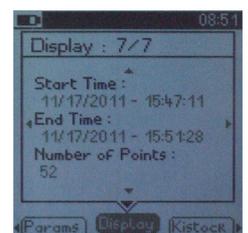


Fig. 5

• Discharge stored dataset from the data recorder to a computer

- Connect the data recorder on the base.
- Turn on the data recorder.
- Launch Kilog RF software.
- Select as communication support the data recorder.
- Click on **“Transmit data”** button.
- Tick the dataset to transmit.
- Select an operator and/or a customer if necessary.
- Click on **“Next”** button.
- Select the dataset file destination that will be created.
- Select the required option concerning the files management.
- Click on **“Finish”** button.

• Delete dataset stored in the data recorder

- Turn the data recorder.
- Go to **“Memory”** with left and right arrows.
The device asks to erase :
- Go to **YES** with up and down arrows to erase all datasets
or
- Go to **NO** to cancel and back to main screen or press **Esc**.



Fig. 6

• Visualize data from a kistock in real-time on the data recorder

When a Kistock is registered in the data recorder, it is possible to visualize its measurements in real-time :

- Go to **“Kistock”** with left and right arrows then press **OK**.
- Select **“RF connection”** with up and down arrows then press **OK**.
- Select the Kistock up and down arrows then press **OK**.
- Select **“Values”** with left and right arrows.

Data recorder displays values measured by the Kistock. (see fig.7).



Fig. 7

• Set the device

This part allows to adjust the following parameters of the data recorder :

- Date/Time
- Beep
- Auto shut-off
- Contrast
- Backlight
- Memory
- Language

- From main screen, go to **“Params”** then press **OK**.

Set date and time :

- Go to **“Date and time”** line with up and down arrows then press **OK**.
- Set date and time with arrows.
- Press **OK** to validate.

Activate or deactivate beep :

- > Go to “**BEEP**” line with up and down arrows then press **OK**.
- > Select **ON** to activate or **OFF** to deactivate the beep of the keys.
- > Press **OK** to validate.

Activate or deactivate auto shut-off of the data recorder :

- > Go to “**Extinction**” line with up and down arrows then press **OK**.
- > Select **OFF** to deactivate it or the time before automatic shut-off (15, 30, 45 min or 1h).
- > Press **OK** to validate.

Set contrast :

- > Go to “**Contrast**” line with up and down arrows then press **OK**.
- > Set contrast between 0 and 9.
- > Press **OK** to validate.

Set backlight :

- > Go to “**Backlight**” line with up and down arrows then press **OK**.
- > Set backlight between 1 and 9 or on Auto.
- > Press **OK** to validate.

Delete datasets :

- > See previous page.

Select the language of the device :

- > Go to “**Language**” line with up and down arrows then press **OK**.
- > Select language : French, English or another installed language.
- > Press **OK** to validate.

• About data recorder :

- > Turn on the device.
- > Go to “**Infos**” with left and right arrows..
- > Press **OK**.

Data recorder serial number, number of stored datasets and firmware version are displayed.

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