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KANE1010

Wireless H&V Remote Monitor

Stock No: 19820 May 2016

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KANE1010 OVERVIEW

PRODUCT DESCRIPTION

The KANE1010 is a battery powered remote monitoring instrument that wirelessly connects to either Android or Apple devices. Users must choose Android or Apple at the time of ordering their instrument.

The core unit has two type K thermocouple connections, an integral thermistor based ambient temperature monitor and an integral humidity sensor. (The two type K thermocouple probes are not supplied as standard.)

It also accepts inputs from an optional remote probe module that itself measures temperature, humidity and airflow. Airflow is measured using a 3 inch vane anemometer.

TYPICAL APPLICATIONS

Monitoring the performance of air conditioning evaporator units

Monitoring flow and return temperatures of loft fitted central heating boilers

Balancing centralised heating or air conditioning units using multiple KANE1010s

⚠ SAFETY WARNING

This instrument must only be used by trained and competent persons after due consideration of all the potential hazards.

<u>Protection Against Electric Shock</u> (in accordance with EN 61010-1 : 2010)

This instrument is designated as Class III equipment and should only be connected to SELV circuits.

The battery charger is designated as:
Class II equipment
Installation category II
Pollution degree 2
Indoor use only
Altitude to 2000m
Ambient temperature 0°C-40°C
Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50%RH at 40°C
Mains supply fluctuations not to exceed 10% of the nominal voltage.

1. BEFORE FIRST USE

Charge the batteries for at least 12 hours.

2. USING THE KANE1010

When the KANE1010 is switched ON by pressing and holding the ON/OFF button for 2 secs or so, first the LED glows Red and after a few seconds of initialisation it turns GREEN.

At this point the KANE1010 can be paired with a compatible display device.

3. CONNECTING TO A DISPLAY DEVICE

You need to download a copy of KANE LIVE on to your device.
Go to the Kane International Ltd website at www.kane.co.uk .

Register your product and then download KANE LIVE from your Dashboard.

Activate KANE LIVE by clicking on the icon symbol on your desktop.

Click OPTIONS to expose the side panel

Then click HELP to initiate the HELP FILE.

Now follow the instruction watching out for system generated message that might appear before first pairing.

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4. ANALYSER SPECIFICATION

(NOTE: MAY BE SUBJECT TO CHANGE)

Parameter	Range	Resolution	Accuracy
Main Module			
2 x thermocouple Temperature	-100 to +600°C	0.1°C	±1.0°C ±0.3% reading
Ambient Temperature (Internal sensor)	0 to +50°C	0.1°C	±1.0°C
Ambient Humidity (Internal sensor)	10 to100%	0.1%	±5% abs
Optional External Probe			
Temperature	-20C to +60C	0.1C	±1.0°C
Humidity	10 to 100%	0.1%	±5% abs
Airflow	0.3 to 30 m/s	0.1 m/s	±1 m/s

This product is designed for indoor use only.

POWER SUPPLY

4 x AA NiMh cells
Charger: Output: 12 V dc @ 1.0 amp
Input: 100-240V ac @ amps

Caution: Do not mix cell types, manufacturers or capacities as this can affect the battery life performance.

Only use the charger supplied. Other chargers jack plugs may fit but may not properly charge the cells. There is also the risk of causing overheating and potentially fire.

With the KANE1010 switched OFF when the charger is plugged in and is active the LED flashes RED.

5. ELECTROMAGNETIC COMPATIBILITY

European Council Directive 89/336/EEC requires electronic equipment not to generate electromagnetic disturbances exceeding defined levels and have adequate immunity levels for normal operation. Specific standards applicable to this product are detailed in the appendices.

As there are electrical products in use pre-dating this Directive, they may emit excess electromagnetic radiation levels and, occasionally, it may be appropriate to check the product before use by:

The following procedure should be adopted:

Use the normal start up sequence in the location where the equipment will be used.

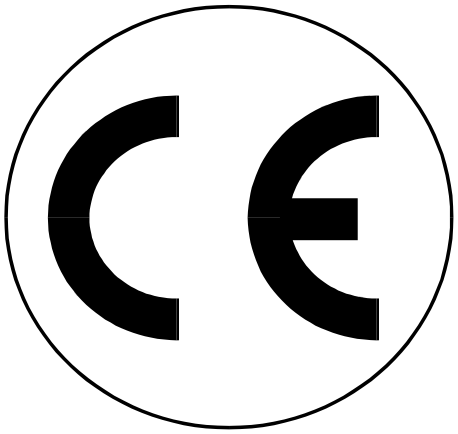
Switch on all localised electrical equipment capable of causing interference.

Check all readings are as expected. A level of disturbance is acceptable.

If not acceptable, adjust the product's position to minimize interference or switch off, if possible, the offending equipment during your test.

N.B. Maximum cable lengths must be less than 3 metres.

At the time of writing this manual (May 2016) Kane International Ltd are not aware of any field based situation where such interference has occurred and this advice is only given to satisfy the requirements of the Directive.



This product has been tested for compliance with the following generic standards:

EN 61000-6-3 : 2011
EN 61000-6-1 : 2007

and is certified to be compliant

Specification EC/EMC/KI/KANE1010/1 details the specific test configuration, performance and conditions of use.

6. END OF LIFE DISPOSAL

The Waste Electrical or Electronic Equipment (WEEE) Directive requires countries in the EU to maximise collection and environrmentally responsible processing of these items.

Products are now labelled with a crossed out wheeled bin symbol to remind you that they can be recycled.

Please Note: Batteries used in this instrument should be disposed of in accordance with current legislation and local guidelines.