

Differential Pressure Meter

KANE3100

it's easy with Kane



3100

mbar
Pa
hPa
kPa
mmHg
mmH₂O
inH₂O
PSI

PRESSURE MEASURING

Features

- 3 versions available
KANE3100-1 ± 1 psi / 80 mbar
KANE3100-2 ± 2 psi / 160 mbar
KANE3100-5 ± 5 psi / 400 mbar
- Resolution to 0.1 pascal / 0.001 mbar on the KANE3100-1
- Ideal for HVAC service engineers
- Switchable between high and low resolution.
- Switchable between: mbar, Pa, hPa, kPa, mmHg, mmH₂O, inH₂O and PSI
- Auto and manual zeroing
- Data hold and max/min recording
- Printouts include date/time and user details
- Supplied with 1m of tubing, protective pouch, battery and instructions

Optional Extras

- KMIRP infra-red thermal paper printer
- KANE ImPrint infra-red plain paper printer

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LOG 01
TIME 12:55 12/05/06
.....
Let By Test
PRS_1 mbar 10.15
PRS_2 mbar 10.10
DURATION MINS 01
.....
Tightness Test
PRS_1 mbar 20.17
DURATION MINS 01
PRS_2 mbar 20.12
DURATION MINS 02
.....
Customer
.....
Appliance
.....
Ref.
.....
```



Headers can be customised by the user.



Technical Specifications KANE3100

KANE3100-1 Specifications

KANE3100-1 includes timed let-by, stabilisation and tightness test with log and print facility. Duration of the let-by, stabilisation and tightness test can be set by the user.

Nominal Pressure Range	Measured Range	Resolution	Accuracy
± 80 mBar Max. overage without damage to the sensor is 5 times nominal range	± 0.2 mBar ± 1 mBar ± 80mBar	0.001 mBar 0.001 mBar 0.01 mBar	±0.005 mBar ±0.03 mBar ± 3% of reading

KANE3100-2 Specifications

KANE3100-2 includes timed let-by, stabilisation and tightness test with log and print facility. Duration of the let-by, stabilisation and tightness test can be set by the user.

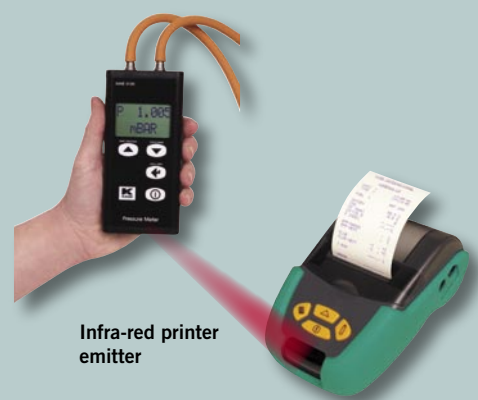
Nominal Pressure Range	Measured Range	Resolution	Accuracy
± 160 mBar Max. overage without damage to the sensor is 5 times nominal range	± 0.2 mBar ± 19.999 mBar ± 160 mBar	0.003 mBar 0.003 mBar 0.01 mBar	±0.02 mBar ±0.05 mBar ± 3% of reading

KANE3100-5 Specifications

KANE3100-5 includes manual log and auto log facilities. Live and stored tests can be printed.

Nominal Pressure Range	Measured Range	Resolution	Accuracy
± 400 mBar Max. overage without damage to the sensor is 5 times nominal range	± 300 mBar ± 400 mBar	0.01 mBar 0.1 mBar	± 3% of reading

Parameter	Description
Dimensions: Weight	285 grams with battery
Handset	150mm x 72mm x 23mm (172mm including spigots)
Ambient Operating Range	+0°C to +45°C / 10% to 90% RH non-condensing
Power Supply	9 Volt PP3 alkaline battery



Infra-red printer emitter

KANE Micro-manometer solves the problem

Most manometers display to 0.01 mbar / 1 Pa resolution which is adequate for many HVAC applications.

However, modern high efficiency boilers have air/gas ratio valves which must be accurately set at very low differential pressures – typically between 0.00 and -0.05 mbar. The pressure also pulsates which makes it impossible to measure with a standard electronic manometer.

The KANE3100-1 micro-manometer solves these problems. At low pressures it reads to 0.001 mbar, is accurate to ±0.005 mbar, - significantly better than any standard manometer - and has a smoothing mode to damp out pulsing. These features also make it ideal for flue draught measurement.

The KANE3100-1 is temperature compensated to remove “drift” when taken from a cold van into a warm home. This ensures stable readings, particularly important when performing automatic “tightness test” sequences. It can also store up to 250 timed and dated tests in the memory.

Live or stored tests including the “tightness test” can be printed via an optional infra-red printer.

The new KANE3100-1 is the first micro-manometer truly designed for heating engineers.

The KANE3100-2 and 3100-5 have similar features to the KANE3100-1 but with higher measuring ranges.

The KANE3100 has a tough metal case and is supplied with a pouch, 1 metre of tubing, battery and manual.

PRESSURE CONNECTIONS (P1 & P2)

DISPLAY

- Top line = pressure reading
- Bottom line can scroll to display:
 - Maximum pressure
 - Minimum pressure
 - Time
 - Date
 - Pressure units
 - Battery %
 - Internal temperature of meter

PRINT / BACKLIGHT

- Press to print “live”, “held” or “logged” data. Press again to cancel.
- Press for 2+ seconds to switch the backlight on/off

TIPS - For maximum accuracy

1. Switch the meter on 5 minutes before use to stabilise
2. Re-zero the meter in the orientation that it is to be used

SCROLL / MENU

- Press to scroll bottom line
- Press for 2+ seconds to enter the “MENU”.

HOLD / ZERO

- Press to “hold” data. Display pulses to indicate “hold” active.
- Press again to release “hold”.
- Press for 2+ seconds to zero the pressure sensor

ON / OFF

- Turns the meter ON / OFF
- Meter has 10 second countdown when turned on or off

Infra-red emitter for printer + Battery compartment (1 x PP3)

Your distributor

Warranty

All Kane International Limited products are warranted for 12 months from the date of purchase. This warranty covers any defects in materials or manufacturing.

Kane International Limited specialise in the design, manufacture and marketing of electronic instruments for monitoring and optimising both energy usage and emissions from energy processes. Our Policy is to continuously develop and improve our products and so we reserve the right to change any part of our product specifications without prior notice.



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