KANE3500
PRESSURE METER

Stock No : 18853 January 2010

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GENERAL OPERATION

When the instrument is first switched on using  , the top line of the display shows in sequence the date, the time, the model version number, the battery status and the pressure units. The bottom line of the display shows a countdown number that starts at 10 and reduces to zero. At zero the meter display two lines of data.

The display shows 2 lines of data and all data can be printed via an optional infrared printer. The printed data can be 'live' data, 'frozen data' or stored data. 255 sets of tests can be stored in non-volatile memory.

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The display shows 2 lines of data and all data can be printed via an optional infrared printer. The printed data can be 'live' data, 'frozen data' or stored data. 255 sets of tests can be stored in non-volatile memory.

Two lines of 20 characters can be added to the header of printouts.

The meters are controlled using 8 buttons

The eight buttons are:

ON/OFF 

Press for ON or OFF.
The meter counts down from 10 after OFF is pressed

Press  to cancel OFF .

MENU 

Press and hold for MENU.

Two lines of 20 characters can be added to the header of printouts.

The meters are controlled using 8 buttons

The eight buttons are:

ON/OFF 

Press for ON or OFF.
The meter counts down from 10 after OFF is pressed

Press  to cancel OFF .

MENU 

Press and hold for MENU.

ZERO 

Press and hold until there is a beep to ZERO the reading

BACKLIGHT 

Press and hold until there is a beep to toggle the BACKLIGHT

HOLD/ PRINT 

A quick press to HOLD the reading and the display flashes.

A longer press to PRINT

ZERO 

Press and hold until there is a beep to ZERO the reading

BACKLIGHT 

Press and hold until there is a beep to toggle the BACKLIGHT

HOLD/ PRINT 

A quick press to HOLD the reading and the display flashes.

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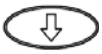
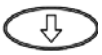
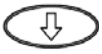
UP / DOWN  / 

Press either to change the bottom line of the display.

ENTER 

Press  to cancel OFF .

The buttons with  ,  and  arrows also change settings such as date, time, and other menu items when MENU mode has been selected.

UP / DOWN  / 

Press either to change the bottom line of the display.

ENTER 

Press  to cancel OFF .

The buttons with  ,  and  arrows also change settings such as date, time, and other menu items when MENU mode has been selected.

1. BEFORE USING THE METER FOR THE FIRST TIME:

Remove the cover and fit a new battery in the battery compartment. **Take great care to ensure that the battery is fitted with the correct battery polarity.** Then replace the battery cover. Always check that the meter is working correctly after replacing the battery.

Set the meter's correct time, date and units. These are then stored when the meter is switched off.

1. BEFORE USING THE METER FOR THE FIRST TIME:

Remove the cover and fit a new battery in the battery compartment. **Take great care to ensure that the battery is fitted with the correct battery polarity.** Then replace the battery cover. Always check that the meter is working correctly after replacing the battery.

Set the meter's correct time, date and units. These are then stored when the meter is switched off.

2. BEFORE USING THE METER EVERY TIME:

After switch on, check that date and time are correct and battery power is sufficient and the displayed units are the ones required.

SAFETY WARNING

Never connect to a pressure source where you are not sure what the maximum pressure might be. Always ensure that the meter you are using is correctly rated for the pressure that you intend to measure. Excessive pressure (>5 times nominal range) can permanently damage the meter's pressure sensor.

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NOTE :
Use the + input for all single input measurements of pressure or vacuum. Only use the – input when taking a differential measurement.

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3. THE MENU FUNCTIONS

The MENU structure comprises main menu options. STORE, SETUP and PRESSURE have a sub-menu structure. SERVICE is for use by an approved service organisation only.

MENU

Press 

and use the  button to select the following function for change:

STORE
SETUP
PRESSURE
SERVICE
EXIT

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The MENU structure comprises main menu options. STORE, SETUP and PRESSURE have a sub-menu structure. SERVICE is for use by an approved service organisation only.

MENU

Press MENU and use the button to select the following function for change:

STORE
SETUP
PRESSURE
SERVICE
EXIT

Press  **to select a main menu function**

When you have selected the function to change, press  to select.

Repeat this to scroll through the menu and select (using the  key) and change (using the  /  keys) the function.

The final, logical  returns you to the main menu display.

Press  **to select a main menu function**

When you have selected the function to change, press  to select.

Repeat this to scroll through the menu and select (using the  key) and change (using the  /  keys) the function.

The final, logical  returns you to the main menu display.

To exit the MENU function the final logical  is pressed. No changes are made if the MENU function is aborted by pressing  .

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PRESSURE

SMOOTH

OFF = Normal
ON = Readings filtered to damp out fluctuations

RESOLVE

HIGH = maximum number of decimal places

LOW = one less decimal place displayed

PS UNITS

mBAR, inH2O, hPa, mmHg, PSI, kPa, Pa, mmH2O

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OFF = Normal
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RESOLVE

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PS UNITS

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REPORT

TEST	Automated Let-By Test, Stabilisation & Tightness Test
VIEW	Display stored report results (max. 8)
DEL ALL	Delete all test results
SETTING	Time 1 – Let-By Test duration, Time 2 – Stabilisation Period, Time 3 – Tightness Test duration Set using
NB :	Times are in minutes 01 = 1 Minute

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SETTING	Time 1 – Let-By Test duration, Time 2 – Stabilisation Period, Time 3 – Tightness Test duration Set using
NB :	Times are in minutes 01 = 1 Minute

SETUP

1. Temperature units - ^{o}F or ^{o}C
2. AUTO-OFF adjusts the auto power off time. **A setting of 00 sets the meter for manual switch off only**.
3. Time – Uses “Military” time as standard: 7am = 07:00, 7pm = 19:00
4. Date user defined format
5. Header – 2 lines each of up to 20 characters that appear on the printout.

Use and  /  .

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Use and  /  .

6 Language : English, French, Italian, German, Spanish

7 The display’s contrast.

8 EXIT

6 Language : English, French, Italian, German, Spanish

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8 EXIT

STORE

VIEW:
The test number appears on the top line.
Use  or  to change test number.
The bottom line shows the measured value.
Use  to exit this mode.

LOG :

Saves a set of results when  is pressed. Storage capacity is 255 sets of results

STORE

VIEW:
The test number appears on the top line.
Use or to change test number.
The bottom line shows the measured value.
Use to exit this mode.

LOG :

Saves a set of results when is pressed. Storage capacity is 255 sets of results

AUTO STO :
Automatically stores readings at a preset interval. Press  then select YES or NO. If YES set the desired time interval between 2 and 99 seconds and then press  to activate and exit.

DEL ALL:
Clears all the memory when YES and  pressed.

EXIT

AUTO STO :
Automatically stores readings at a preset interval. Press  then select YES or NO. If YES set the desired time interval between 2 and 99 seconds and then press  to activate and exit.

DEL ALL:
Clears all the memory when YES and  pressed.

EXIT

BOTTOM LINE OPTIONS

Max Pressure

Min Pressure

Time

Date

Pressure units

Battery Status

Instrument Internal Temp

BOTTOM LINE OPTIONS

Max Pressure

Min Pressure

Time

Date

Pressure units

Battery Status

Instrument Internal Temp

BOTTOM LINE OPTIONS Max Pressure is displayed as :

P	1.3
–	1.9

Min Pressure is displayed as :

P	1.3
–	1.1

BOTTOM LINE OPTIONS Max Pressure is displayed as :

P	1.3
–	1.9

Min Pressure is displayed as :

P	1.3
–	1.1

4. MEASURING

Make sure you do not exceed the meter's operating specifications.

- Do not exceed the meter's internal temperature operating range
- Do not put the meter on a hot surface

When taking critical draft measurements always re-zero the meter in the position you are taking the readings and hold the meter still during the test.

4. MEASURING

Make sure you do not exceed the meter's operating specifications.

- Do not exceed the meter's internal temperature operating range
- Do not put the meter on a hot surface

When taking critical draft measurements always re-zero the meter in the position you are taking the readings and hold the meter still during the test.

Always use the top right hand port (Port 1) for taking single channel measurements (pressure or vacuum). Only use the left hand port for differential measurements.

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If the pressure being measured exceeds the meter's design range the display will show **OR** for "over-range"

When taking draft readings at very low pressure or draft levels, for maximum accuracy, re-zero the meter in the orientation that it is being used. This eliminated gravity effects on the very sensitive pressure transducer. It is also recommend that the meter is switched on for at least five minutes and then re-zeroed before taking such sensitive measurements.

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When taking draft readings at very low pressure or draft levels, for maximum accuracy, re-zero the meter in the orientation that it is being used. This eliminated gravity effects on the very sensitive pressure transducer. It is also recommend that the meter is switched on for at least five minutes and then re-zeroed before taking such sensitive measurements.

EXAMPLE PRINTOUTS

The standard printout is:

The MAX and MIN readings are those observed since last switch on

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NOTE:

Printouts of stored readings will also include the TEST NO. below the header.

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5. LET-BY and TIGHTNESS TESTING **(only applicable for KANE3500-1/UK and KANE3500-2/UK)**

To set the duration of each test press MENU, select PRESSURE, select REPORT, select SETTINGS. Use ⇧/⇩ and ↵ to set the times in minutes.

TIME 01 = Let-By Test duration

TIME 02 = Stabilisation period

TIME 03 = Tightness Test duration

5. LET-BY and TIGHTNESS TESTING **(only applicable for KANE3500-1/UK and KANE3500-2/UK)**

To set the duration of each test press MENU, select PRESSURE, select REPORT, select SETTINGS. Use ⇧/⇩ and ↵ to set the times in minutes.

TIME 01 = Let-By Test duration

TIME 02 = Stabilisation period

TIME 03 = Tightness Test duration

LET-BY TEST **(only applicable for KANE3500-1/UK and KANE3500-2/UK)**

Press MENU, select PRESSURE, select REPORT, select TEST. If the let-by test is required, change to YES and press ⏎.

CONNECT
P1 0.00

Connect the meter to the system under test and adjust the pressure accordingly. Once the correct pressure has been achieved press ⏎.

TIME 59
P2 10.05

LET-BY TEST **(only applicable for KANE3500-1/UK and KANE3500-2/UK)**

Press MENU, select PRESSURE, select REPORT, select TEST. If the let-by test is required, change to YES and press ⏎.

CONNECT
P1 0.00

Connect the meter to the system under test and adjust the pressure accordingly. Once the correct pressue has been achieved press ⏎.

TIME 59
P2 10.05

The display shows the countdown timer (Time 1 in REPORT SETTINGS) and the measured pressure. Once the countdown has finished the display shows the initial pressure P1 and the final pressure P2.

P1	10.05
P2	10.05

If the system fails the let-by test, press  to exit the test sequence.
If the system passes the let-by test, press  to continue with the tightness test.

The display shows the countdown timer (Time 1 in REPORT SETTINGS) and the measured pressure. Once the countdown has finished the display shows the initial pressure P1 and the final pressure P2.

P1	10.05
P2	10.05

If the system fails the let-by test, press  to exit the test sequence.
If the system passes the let-by test, press  to continue with the tightness test.

TIGHTNESS TEST **(only applicable for KANE3500-1/UK and KANE3500-2/UK)**

After completing the let-by test (or after selecting NO), the stabilisation and tightness test can be performed.

The display shows :

CONNECT
P 0.00

Connect the meter to the system under test and adjust the pressure accordingly. Once the correct pressure has been achieved press  .

TIME 59
P3 19.95

TIGHTNESS TEST **(only applicable for KANE3500-1/UK and KANE3500-2/UK)**

After completing the let-by test (or after selecting NO), the stabilisation and tightness test can be performed.

The display shows :

CONNECT
P 0.00

Connect the meter to the system under test and adjust the pressure accordingly. Once the correct pressure has been achieved press  .

TIME 59
P3 19.95

The display shows the countdown timer (Time 2 in REPORT SETTINGS) and the measured pressure. Once the countdown has finished P3 is stored and the display changes to

TIME 120
P4 19.85

(Where TIME = Time 3 in REPORT SETTINGS)

The display shows the countdown timer (Time 2 in REPORT SETTINGS) and the measured pressure. Once the countdown has finished P3 is stored and the display changes to

TIME 120
P4 19.85

(Where TIME = Time 3 in REPORT SETTINGS)

At the end of the countdown period the display automatically changes to

P3	19.87
P4	19.84

Where P3 is the pressure at the start of the test period and P4 is the final pressure at the end of the test period.

Press  to log the result. The display shows the log number.

LOG	03

At the end of the countdown period the display automatically changes to

P3	19.87
P4	19.84

Where P3 is the pressure at the start of the test period and P4 is the final pressure at the end of the test period.

Press  to log the result. The display shows the log number.

LOG	03

Press PRINT to print if required. The logged data can always be accessed by VIEW in the report menu.

Press  to EXIT.

Press PRINT to print if required. The logged data can always be accessed by VIEW in the report menu.

Press  to EXIT.

Let-By Test and Tightness Test Printout

NOTE :
Printouts of stored readings will also include the LOG NO. Below the header

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6. METER ANNUAL RECALIBRATION AND SERVICE

The meter should be re-calibrated and serviced annually by a Kane approved service centre.

Local regulations may require more frequent re-calibration.

Calibration is performed in firmware and there are no user accessible adjustments or user serviceable parts.

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Calibration is performed in firmware and there are no user accessible adjustments or user serviceable parts.

7. SPECIFICATION

Model: KANE3500-1

Nominal Pressure Ranges

mBar	mmH_2O	Pa	kPa
80.00	800.0	8000	8.000

PSI	mmHg	hPa	inH_20
1.000	60.00	80.00	30.00

7. SPECIFICATION

Model: KANE3500-1

Nominal Pressure Ranges

mBar	mmH_2O	Pa	kPa
80.00	800.0	8000	8.000

PSI	mmHg	hPa	inH_20
1.000	60.00	80.00	30.00

SPECIFICATION

Model: KANE3500-2

Nominal Pressure Ranges

mBar	mmH_2O	Pa	kPa
160.00	1600.0	16000	16.000

PSI	mmHg	hPa	inH_20
2.000	120.00	160.00	60.00

SPECIFICATION

Model: KANE3500-2

Nominal Pressure Ranges

mBar	mmH_2O	Pa	kPa
160.00	1600.0	16000	16.000

PSI	mmHg	hPa	inH_20
2.000	120.00	160.00	60.00

SPECIFICATION

Model: KANE3500-5

Nominal Pressure Ranges

mBar	mmH_2O	Pa	kPa
400.0	4000	32000	40.00

PSI	mmHg	hPa	inH_20
5.000	300.0	400.0	150.0

SPECIFICATION

Model: KANE3500-5

Nominal Pressure Ranges

mBar	mmH_2O	Pa	kPa
400.0	4000	32000	40.00

PSI	mmHg	hPa	inH_20
5.000	300.0	400.0	150.0

SPECIFICATION

Model: KANE3500-15

Nominal Pressure Ranges

mBar	kPa	PSI
1040.0	100.00	15.00

mmHg	hPa	inH_20
780.0	1040.0	400.0

SPECIFICATION

Model: KANE3500-15

Nominal Pressure Ranges

mBar	kPa	PSI
1040.0	100.00	15.00

mmHg	hPa	inH_20
780.0	1040.0	400.0

SPECIFICATION

Model: KANE3500-30

Nominal Pressure Ranges

mBar	kPa	PSI
2070.0	207.00	30.00

mmHg	hPa	inH_20
1560.0	2070.0	800.0

SPECIFICATION

Model: KANE3500-30

Nominal Pressure Ranges

mBar	kPa	PSI
2070.0	207.00	30.00

mmHg	hPa	inH_20
1560.0	2070.0	800.0

Pressure Measurement

Model: KANE3500-1

Max. overrange without damage to sensor is 5 times nominal range

Range	Resolution	Accuracy
± 20 Pa	0.1 Pa	±0.5 Pa
± 100 Pa	0.1 Pa	± 3 Pa
± 2000 Pa	1 Pa	± 3% of reading
± 80 hPa	0.01 hPa	± 3% of reading

Pressure Measurement

Model: KANE3500-1

Max. overrange without damage to sensor is 5 times nominal range

Range	Resolution	Accuracy
± 20 Pa	0.1 Pa	±0.5 Pa
± 100 Pa	0.1 Pa	± 3 Pa
± 2000 Pa	1 Pa	± 3% of reading
± 80 hPa	0.01 hPa	± 3% of reading

Pressure Measurement

Model: KANE3500-2

Max. overrange without damage to sensor is
5 times nominal range

Range	Resolution	Accuracy
± 20 Pa	0.3 Pa	±2 Pa
± 2000 Pa	0.3 Pa	± 5 Pa
± 160 hPa	0.01 hPa	± 3% of reading

Pressure Measurement

Model: KANE3500-2

Max. overrange without damage to sensor is
5 times nominal range

Range	Resolution	Accuracy
± 20 Pa	0.3 Pa	±2 Pa
± 2000 Pa	0.3 Pa	± 5 Pa
± 160 hPa	0.01 hPa	± 3% of reading

Pressure Measurement

Model: KANE3500-5

Max. overrange without damage to sensor is 5 times nominal range

Range	Resolution	Accuracy
± 32000 Pa	1 Pa	± 5 Pa
± 300 hPa	0.01 hPa	± 0.05 hPa
± 400 hPa	0.1 hPa	± 3% of reading

Pressure Measurement

Model: KANE3500-5

Max. overrange without damage to sensor is 5 times nominal range

Range	Resolution	Accuracy
± 32000 Pa	1 Pa	± 5 Pa
± 300 hPa	0.01 hPa	± 0.05 hPa
± 400 hPa	0.1 hPa	± 3% of reading

Pressure Measurement

Model: KANE3500-15

Max. overrange without damage to sensor is
5 times nominal range

Range	Resolution	Accuracy
± 309.99 hPA	0.01 hPa	± 10 hPa
± 1040.0 hPA	0.1 hPa	± 3% of reading

Pressure Measurement

Model: KANE3500-15

Max. overrange without damage to sensor is
5 times nominal range

Range	Resolution	Accuracy
± 309.99 hPA	0.01 hPa	± 10 hPa
± 1040.0 hPA	0.1 hPa	± 3% of reading

Pressure Measurement

Model: KANE3500-30

Max. overrange without damage to sensor is 5 times nominal range

Range	Resolution	Accuracy
± 1076 hPA	0.1 hPa	± 10 hPa
± 2070.0 hPA	1 hPa	± 3% of reading

Pressure Measurement

Model: KANE3500-30

Max. overrange without damage to sensor is 5 times nominal range

Range	Resolution	Accuracy
± 1076 hPA	0.1 hPa	± 10 hPa
± 2070.0 hPA	1 hPa	± 3% of reading

Dimensions

Weight	295 grams with battery
Handset	160mm x 80mm x 40mm (180mm incl. spigots)
Ambient Operating Range	+0°C to +45°C 10% to 90% RH non-condensing
Power Supply	9 Volt PP3 alkaline battery

Dimensions

Weight	295 grams with battery
Handset	160mm x 80mm x 40mm (180mm incl. spigots)
Ambient Operating Range	+0°C to +45°C 10% to 90% RH non-condensing
Power Supply	9 Volt PP3 alkaline battery

8. 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 meter are stated below.

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 meter before use by:

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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 meter before use by:

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

Switch on all localized electrical equipment capable of causing interference.

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

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

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

Switch on all localized electrical equipment capable of causing interference.

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

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

At the time of writing this manual (Jan 2010) 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.

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ELECTROMAGNETIC COMPATIBILITY

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

EN 61000-6-3 :2001
EN 61000-6-1 :2001

and is certified to be compliant

Specification EC/EMC/KI/KANE3500 details the specific test configuration, performance and conditions of use.

ELECTROMAGNETIC COMPATIBILITY

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

EN 61000-6-3 :2001
EN 61000-6-1 :2001

and is certified to be compliant

Specification EC/EMC/KI/KANE3500 details the specific test configuration, performance and conditions of use.

Please Note:

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

At the end of its life the meter should be sent to the appropriate recycling centre in accordance with current legislation and local guidelines

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APPENDIX 1 – Main Parameters :

UNITS : User selectable from :

PSI
hPa
inH2O
mBar
mmH2O
Pa
kPa

NOTE! Not all units available on all models.

DATE : Date shown as day, month and year. The order can be changed using the menu function. Date is recorded when each test is printed.

APPENDIX 1 – Main Parameters :

UNITS : User selectable from :

PSI
hPa
inH2O
mBar
mmH2O
Pa
kPa

NOTE! Not all units available on all models.

DATE : Date shown as day, month and year. The order can be changed using the menu function. Date is recorded when each test is printed.

TIME : The time is shown in hours and minutes, expressed in « Military » time or the 24 hr clock. Time is recorded when each test is stored/printed.

NOTE ! When changing the batteries on the instrument the memory will store the date and time for up to one minute, if outside this time it may be necessary to re-enter the details.

TIME : The time is shown in hours and minutes, expressed in « Military » time or the 24 hr clock. Time is recorded when each test is stored/printed.

NOTE ! When changing the batteries on the instrument the memory will store the date and time for up to one minute, if outside this time it may be necessary to re-enter the details.

SYMBOLS used on the display.

T	The internal temperature of the meter
P	The pressure reading in the user's selected units
	Displays the Battery power available in %

When the LO BAT symbol appears this indicates the batteries are less than 10% of charge and should be replaced, readings may be affected if used with low power batteries

SYMBOLS used on the display.

T	The internal temperature of the meter
P	The pressure reading in the user's selected units
	Displays the Battery power available in %

When the LO BAT symbol appears this indicates the batteries are less than 10% of charge and should be replaced, readings may be affected if used with low power batteries

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

UK Office
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