

Product data sheet

PREMIUM ECOLOGY & WEATHER KIT

The Brannan ecology and weather kits provide a selection of weather watcher equipment in a sturdy carry case.

To ensure that meteorological observations are made under the best and most consistent conditions, instruments for outdoor use should be grouped together on a carefully selected site enclosed by open fencing or palings to exclude unauthorised persons or animals. The plot chosen should be on generally level ground covered with short grass and must not be in a hollow or near a steep slope and the site should be well away from trees, bushes, walls or buildings or any other possible obstruction.

Those seeking more detailed information about weather recording are recommended to obtain "The Meteorological Observers' Handbook", from H.M. Stationery Office.



Product features:

- Selection of weather watcher equipment
- Complete with weather register to record measurements
- Supplied in robust carry case with full operating instructions

Contents:

- Mini thermo-anemometer
- Mini thermo-light meter
- Whirling hygrometer
- Rainfall sprinkler measure
- Weather register
- Mini thermo-sound
- Mini thermo-humidity meter
- Soil thermometer
- Weatherstation

Product specifications:

Gross weight: 1481g (including 505g case)

Gross dimensions: 320mm x 280mm x 119mm

Description	Barcode	Product no
Premium ecology & weather kit	5 011405 257093	25/709/0
Replacement weather register	N/A	13/062/0

Product data sheet

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MINI THERMO-ANEMOMETER

Easy to use windspeed meter as part of our range of mini environmental meters.

Product features:

- Air velocity measurement
- User selectable units: m/s, ft/min, Km/h, MPH, Knots
- MAX min record and data hold function
- Large backlit colour LCD
- Low battery indicator
- Auto power off - enable/disable function
- Supplied with 3 point calibration certificate
- CE & RoHS/WEEE Compliant

Product specifications:

Measurement	Range	Accuracy	Resolution
Air velocity:	0.4 to 30 m/s	+/- 3% or 0.3 m/s	0.1 m/s
	1.4 to 108 Km/hr	+/- 3% or 1.0 Km/hr	0.1 Km/hr
	0.9 to 67 MPH	+/- 3% or 0.4 MPH	0.1 MPH
	0.8 to 58 knots	+/- 3% or 0.4 knots	0.1 knots
	80 to 5900 ft/min	+/- 3% or 40 ft/min	1.0 ft/min
Temperature:	-20 to +70°C&F	+/- 1.5°C (2.7°F)	0.1°C&F
Data update:	300 ms		
Power off:	Auto shut down after 15 mins inactivity (except when auto off disabled)		
Operating conditions:	-20 to +60°C&F / 10 to 90%RH		
Storage conditions:	-20 to +60°C&F / 10 to 75%RH		
Battery:	3 x AAA (included) Average life - 60 hours on continuous use		
Dimensions:	178.5mm x 56mm x 30.5mm LCD: 30mm x 28mm		
Weight:	106.5g (including batteries)		



Description	Barcode	Product No
Mini thermo-anemometer	5 011405 134707	13/470/0

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MINI THERMO-SOUND LEVEL METER

Easy to use sound level meter as part of our range of mini environmental meters.

Product features:

- High accuracy, fast response
- Sound level and temperature measurement
- Wide frequency range
- Over range indication
- Auto power off - enable/disable function
- Supplied with 3 point calibration certificate
- Colour LCD display with backlight
- Max min and data hold
- Fast/slow time weighting
- Low battery indication
- CE & RoHS/WEEE Compliant

Product specifications:

Measurement	Range	Accuracy	Resolution
Temperature:	-20 to +70°C&F	+/- 1.5°C (2.7°F)	0.1°C&F
Sound level:	35 to 135 dB	+/- 2.0 dB	0.1
Dynamic range:	50 dB		
Frequency range:	31.5 to 8 KHz		
Frequency weighting:	A		
Time weighting:	Fast: 125 ms / Slow: 1s		
Data update:	300 ms		
Microphone:	1/2" electrets condenser		
High/low indication:	> 100 dB: LCD displays "Hi" < 100 dB: LCD displays "LO"		
Power off:	Auto shut down after 15 mins inactivity (unless auto off disabled)		
Operating conditions:	-20 to +60°C&F / 10 to 90%RH		
Storage conditions:	-20 to +60°C&F / 10 to 75%RH		
Battery:	3 x AAA (included) Average life - 60 hours on continuous use		
Dimensions:	144mm x 56mm x 30.5mm LCD: 30mm x 28mm		
Weight:	95g (including batteries)		



Description	Barcode	Product no
Mini thermo-sound level meter	5 011405 134714	13/471/0

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MINI THERMO-LIGHT METER

Easy to use light meter as part of our range of mini environmental meters.

Product features:

- High accuracy, fast response
- Colour LCD display with backlight
- Max min recording function
- Low battery indication
- Auto power off - enable/disable function
- Automatically revises parameters for nonstandard illumination
- Supplied with 3 point calibration certificate
- CE & RoHS/WEEE Compliant
- Light level and temperature measurement
- Selectable units LUX/FC and °C/F
- Automatic measurement
- Over range indication

Product specifications:

Measurement	Range	Accuracy	Resolution
Temperature:	-20 to +70°C&F	+/- 1.5°C (2.7°F)	0.1
Light:	0 Lux to 200 KLux 0 Fc to 20 KFc	<10,000 Lux = +/-3% rdg +/-8d >10,000 Lux = +/-4% rdg +/-10d	<1000 = 0.1 >1000 = 1.0
Sampling rate:	2 rdgs per second		
Spectral response:	CIE photopic (CIE human eye response curve)		
Spectral accuracy:	CIE Vλfunction (f1' ≤ 6%, f2' ≥ 2%)		
Over range indication:	LCD displays "-OL-" or "-LO-"		
Photo detector:	Silicon photo-diode with spectral response filter		
Power Off:	Auto shut down after 15 mins inactivity (unless auto off disabled)		
Operating conditions:	-20 to +60°C&F / 10 to 90%RH		
Storage conditions:	-20 to +60°C&F / 10 to 75%RH		
Battery:	3 x AAA (included) Average life - 60 hours on continuous use		
Dimensions:	174.5mm x 56mm x 30.5mm LCD: 30mm x 28mm		
Weight:	115.5g (including batteries)		

Description	Barcode	Product no
Mini thermo-light meter	5 011405 134721	13/472/0



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MINI THERMO-HUMIDITY METER

Easy to use thermo-humidity meter as part of our range of mini environmental meters.

Product features:

- Dew point and wet bulb temperature measurement
- Humidity level and temperature measurement
- High accuracy, fast response
- Colour LCD display with backlight
- Low battery indication
- Auto power off - enable/disable function
- Supplied with 3 point calibration certificate
- Max min recording and hold function
- °C/F selectable measurement units
- Over range indication
- CE & RoHS/WEEE Compliant

Product specifications:

Measurement	Range	Accuracy	Resolution
Humidity:	0 to 100% RH	+/- 3.5%RH between 45 and 75%RH otherwise +/- 4.5%RH	0.1
Temperature:	-20 to +70°C&F	+/- 1.0°C (1.8°F) Dew Point Temp: +/- 1.5°C (2.7°F)* Wet Bulb Temp: +/- 1.5°C (2.7°F)*	0.1
Sampling rate:	2 readings per second		
Power off:	Auto shut down after 15 mins inactivity (unless auto off disabled)		
Operating conditions:	-20 to +60°C&F / 10 to 90%RH		
Storage conditions:	-20 to +60°C&F / 10 to 75%RH		
Battery:	3 x AAA (included) Average life - 50 hours on continuous use		
Dimensions:	168mm x 56mm x 30.5mm LCD: 30 x 28mm		
Weight:	106.5g (including batteries)		

* Accuracy of dew point temperature is based on environment condition of 25°C / 40 to 100 %RH



Description	Barcode	Product No
Mini thermo-humidity meter	5 011405 134738	13/473/0

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WHIRLING HYGROMETER

Whirling hygrometers, also known as sling psychrometers, employ the “wet” and “dry” bulb principal to determine Relative Humidity (%RH). They are designed to be rotated, by hand, to provide adequate and consistent ventilation of the bulbs.



These hygrometers are spirit filled and replacement refill tubes are available on request. Calibration certification also available.

Product features:

- Whirling hygrometer for measuring %RH
- Environmentally friendly blue spirit filling
- Supplied with 2pcs replacement wicks
- Replacement tubes available
- Complete with carry case and calculator chart (see below)

Product specifications:

- Temperature range:** -5 to +50°C
- Accuracy:** +/-1°C
- Divisions:** 0.5°C
- CE/RoHS/WEEE:** N/A
- Hazard information (SDS):** See brannan.co.uk for information
- Product dimensions:** Net: 82mm x 232mm x 30mm (with handle closed)
- Product weights:** 206g
- Chart: 4g
- Carry case: 4g

Description	Barcode	Product No
Whirling Hygrometer	5 011405 137449	13/744/2
Pair refill tubes	n/a	13/044/2

Thermometers & Instrumentation		Reading of Dry Bulb °C		%Relative Humidity Tables for Aspirated Psychrometer readings in °C		Reading of Dry Bulb °C																																																												
Instructions for use Use these tables to determine the % Relative Humidity from the dry bulb temperature and the wet bulb depression. 1. Open the wick container, wet the wick thoroughly and ensure the wick on the thermometer bulb is wet. 2. Hold the thermometer case horizontally and rotate the thermometer frame for 30 to 40 seconds (180 revolutions/minute) as BS 2842 (1992). 3. Record temperatures of the wet bulb (first) and dry bulb & calculate the wet bulb depression (ie the difference between the two readings). brannan.co.uk	Depression of Wet Bulb °C	9.5	4	7	10	14	16	18	21	23	25	27	29	31	33	34	36	37	38	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	56	9.5																												
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		11.0	-	-	-	-	2	5	8	11	14	16	19	21	23	25	27	28	30	32	33	34	36	37	38	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	11.0																							
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17.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	7	9	10	12	13	15	16	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	17.5	
18.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	7	8	10	12	13	15	16	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	18.0

Measurement for life.



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GARDENER'S SOIL THERMOMETER

This type of soil thermometer is frequently used in the agriculture and horticulture industries to check temperatures of soil and compost. The soil thermometer has a green knob at the top to assist with the location of the thermometer after placement.

Product features:

- 210mm thermometer to check temperature of soil and compost
- Green knob at top of aluminium case to assist with location
- For use in agriculture and horticulture industries

Product specifications:

Temperature range:	-15 to +110°C&F
Divisions:	1°C/2°F
CE/ROHS/WEEE:	N/A
Hazard Information (SDS):	See brannan.co.uk for information
Product material:	Case: aluminium Glass tube: Kerosene filled
Product dimensions :	Stem case length: 210mm Stem case diameter: 9.5mm Knob diameter: 22.5mm ø9.5mm x 210mm
Product weight:	58.5g



Description	Barcode	Product No
Gardener's soil thermometer	5 011405 134172	13/417/3

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RAINFALL SPRINKLER MEASURE

A simple gauge in translucent material calibrated in inches and millimetres.

Product features:

- 100mm diameter rain gauge
- Measuring in inches and millimetres
- Rainfall capacity up to 400ml
- Supplied with rainfall charts. Replacements available

Product specifications:

Range:	0 to 50mm / 0 to 2in
Divisions:	0.5mm / 0.05in
CE/ROHS/WEEE:	N/A
Hazard information (SDS):	See brannan.co.uk for information
Product material:	Crystal styrene
Product dimensions :	Net: ø100mm x 210mm Gross: 240mm x 103mm x 103mm
Product weight:	72g



Description	Barcode	Product no
Rainfall sprinkler measure	5 011405 134141	13/414/3
Replacement rainfall record charts	n/a	13/063/0

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WEATHERSTATION



Max min thermometer with silvered front and black trim. Large display with simultaneous reading of temperature and humidity. Complete with stand or hook for wall hanging and 2m cable for outdoor probe.

Product features:

- Indoor and outdoor temperature measurement
- Simultaneous readings of indoor temperature and humidity
- Minimum and maximum value recording
- Celsius and Fahrenheit readings (selectable)
- Visual reading indicators: dry, wet and comfortable symbols
- 2m probe cable for remote reading
- Desk stand and hanging hook
- Battery and full instructions included
- Replacement probe cable available

Product specifications:

Temperature range:	Indoor: -10 to +50°C&F Outdoor: -50 to +70°C&F
Temperature accuracy:	+/-1°C between -10 and 60°C otherwise +/-2°C
Humidity range:	20 to 90%RH
Humidity accuracy:	+/-5%RH between 30 and 90%RH otherwise +/-7%RH
Resolution:	0.1°C / 1%RH
Sampling rate:	1 reading per 25 seconds
Battery:	1pc x AAA (included)
Product material:	ABS casing, stand and key.
Thermistor probe:	2m cable with stainless steel probe
Storage conditions:	-20 to +60°C&F / 20 to 80%RH
CE/RoHS/WEEE:	Compliant
LCD dimensions:	35mm x 52mm
Product dimensions:	98mm x 74mm x 17mm
Product weight:	79g (including battery and probe)



Description	Barcode	Product No
Weatherstation	5 011405 134202	13/420/3
Replacement probe cable	n/a	13/420/4

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