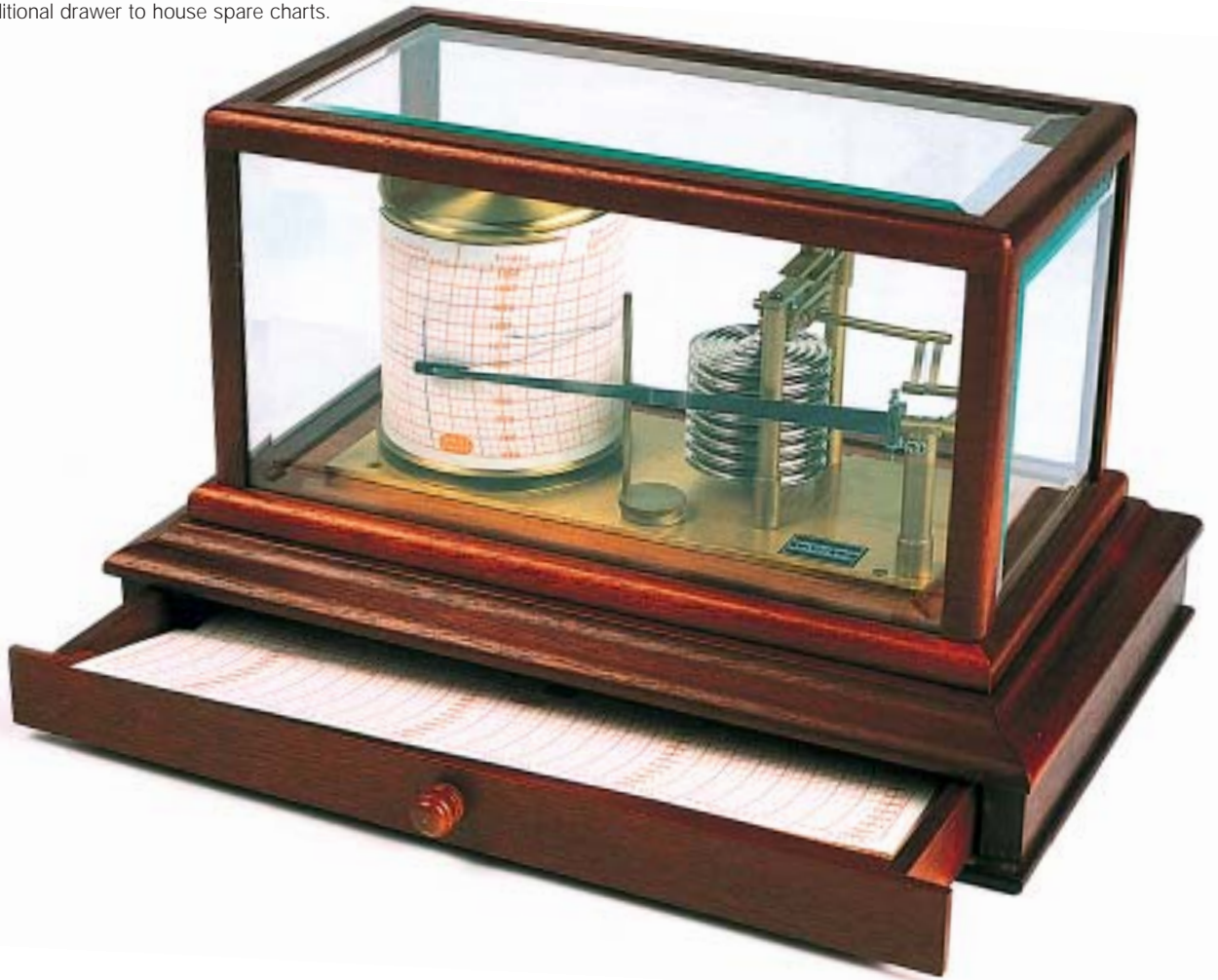


10 BAROGRAPHS AND BAROMETERS

ANEROID BAROGRAPH

Two versions of the Aneroid Barograph are available; the 'Small Pattern' and the 'Display Pattern'. Both have an 8-day clock and are housed in elegant polished wood cases. The Display pattern has all round glass and an additional drawer to house spare charts.



18

CASELLA
CEL

Instrumentation
Tel: +44 (0) 1234 844100
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Specification	DISPLAY PATTERN	SMALL PATTERN
Ranges	950 - 1050mb, 710 - 790mmHg, 28 - 31inHg	950 - 1050mb, 710 - 790mmHg, 28 - 31inHg
Pen travel	75mm	75mm
Sensitivity	1mb = 0.75mm, 1mmHg = 1.0mm, 1inHg = 25.4mm	1mb = 0.75mm, 1mmHg = 1.0mm, 1inHg = 25.4mm
Accuracy	±1mb	±1mb
Time scale	1.66mm/hr, 172 hours total	1.66mm/hr, 172 hours total
Clock	Spring driven, weekly	Spring driven, weekly
Dimensions	370 x 230 x 210mm	310 x 160 x 190mm
Drum size	90 x 93mm (dia)	90 x 93mm (dia)
Chart size	300 x 90mm	300 x 90mm
Weight	5.6kg	3.85kg
Ordering information		
Supplied with weekly clock and 2 pens	M110002	M110004
Supplied with weekly clock, 2 pens and calibration certificate	M110010	M110012
Accessories and spares		
Pack of 2 pens	M118004	M118004
Box of 200 charts range 28 - 31inHg	M107701	M107701
Box of 200 charts range 950 - 1050mb	M107702	M107702
Box of 200 charts range 710 - 790mmHg	M107703	M107703
Contact Details		
Sales	Tel: +44 (0) 1234 841468	Fax: +44 (0) 1234 841490
Service	Tel: +44 (0) 1234 844146	Fax: +44 (0) 1234 841490
		e-mail: info@casella.co.uk

KEW PATTERN BAROMETER

This instrument is made to a British Meteorological Office specification and is the standard type of barometer used in synoptic and climatological weather stations throughout the world. It is also entirely suitable for use in any laboratory or workshop where accurate knowledge of the atmospheric pressure is required.

Principles Of Operation

The Kew Pattern Barometer consists of a column of mercury supported within a vertical glass tube, the top of which is evacuated and sealed. The lower end of the column fits into a cistern containing mercury. The height of the mercury column supported by atmospheric pressure is measured against a graduated scale and vernier.

FORTIN BAROMETER

The Fortin Barometer is the most widely used technique for measuring atmospheric pressure in industrial laboratories and workshops as well as in school, college and university laboratories.



Specification	KEW PATTERN BAROMETER	FORTIN BAROMETER
Effective range	870 to 1060mb	900 to 1060mb
(two ranges per instrument)	650 to 800mmHg/25.7 to 31.2inHg	670 to 800mmHg
Maximum operating altitude	450m	450m
Vernier reads to	0.1mb, 0.05mmHg, 0.002inHg	0.1mb, 0.05mmHg, 0.002inHg
Thermometer range	-10 to +50°C	-10 to +50°C
Mercury	Triple distilled and filtered	Triple distilled and filtered
Dimensions	1070 x 65 x 65mm (1090 x 100 x 100mm barometer in case)	1090 x 90 x 90mm barometer on backboard (1250 x 165 x 165mm barometer in case)
Weight	5.89kg (7.25kg barometer in case)	3.62kg (9.5kg barometer in case)
Ordering Information		
Ordinary range, mb and mmHg scales	M101009	M101002
Ordinary range, mb and inHg scales	M101008	
Accessories and Spares		
Carrying case with rubber packings, lock, key and rope handle	M101015	
Carrying case of polished wood with glass front and sides, reflectors, lock and key		M101004

The following barometric sensors are supplied as part of Automatic Weather Stations.

Specification	STANDARD BAROMETER
Transducer	Temperature compensated silicon bridge
Range	800 to 1100mb
Operating temperature range	-10 to +60°C
Supply voltage	9 - 12V nominal (15V max.)
Power consumption	Approx. 10mA @ 12V
Output calibration	Nominally 0 to 1.6V range (800 to 1100mb). Units are individually calibrated and provided with offset and multiplier values.
Supplied with 0.8m of cable	



Specification	PRECISION BAROMETER
Transducer	Silicon bridge
Range	900 to 1100mb
Accuracy (total error band)	±0.3mb over 35°C range
Hysteresis	±0.1mb
Linearity	±0.1mb
Operating temperature range	-20 to +50°C
Supply voltage	9 - 12V nominal (15V max.)
Power consumption	Approx. 60mA @ 12V
Output calibration	Nominally a 1.5V span (900 to 1050mb) within a -2 to +2V range >10mV per mb. 100R output impedance. Units individually calibrated and provided with offset and multiplier values.
Supplied with 0.8m of cable	



Contact Details

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Service	Tel: +44 (0) 1234 844146	Fax: +44 (0) 1234 841490	e-mail: info@casella.co.uk