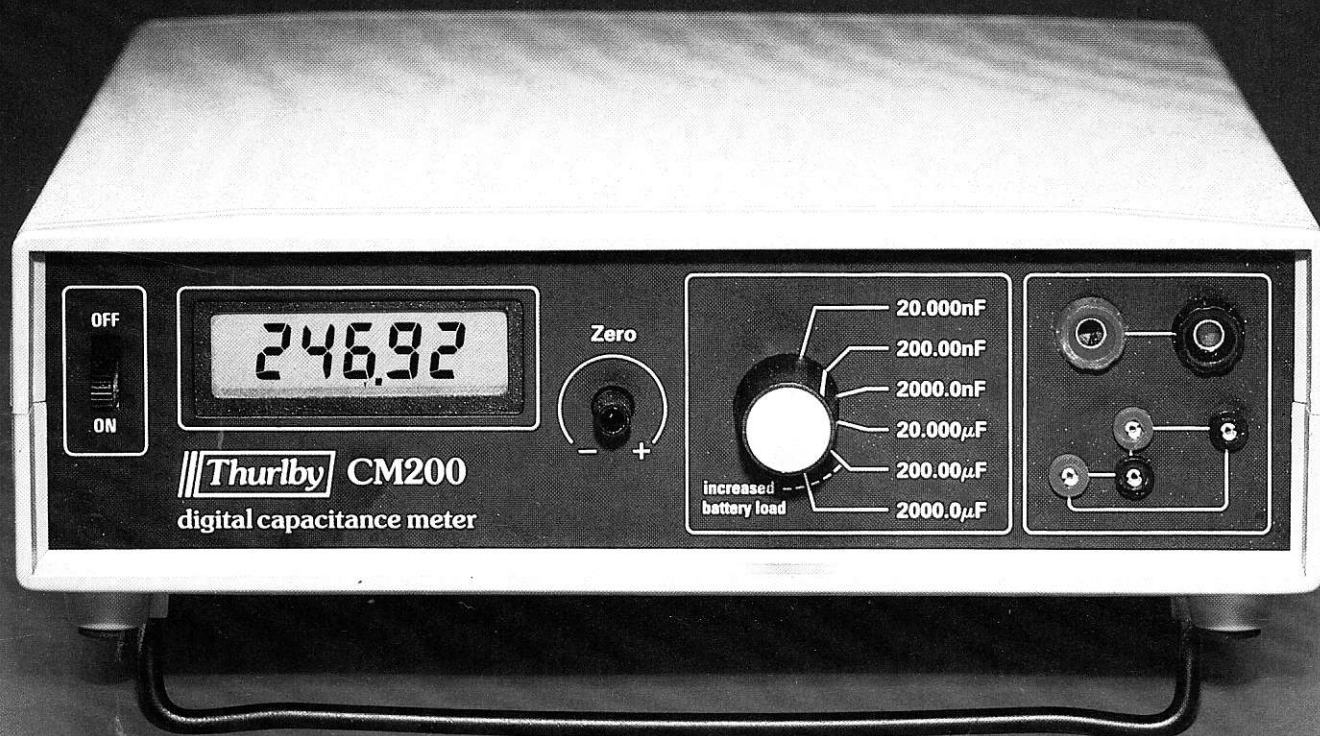


Thurlby CM200

digital capacitance meter



Low cost
4½ digit display
High accuracy, 0.2%
1pF to 2,500µF range
Fuse protected input
LCD, long battery life
Battery or AC line operation

Thurlby

Professional test and measurement instruments

Thurlby CM200 precision capacitance measurement at low cost

- 4½ digit display
- 1pF to 2,500µF range
- High measurement accuracy
- Rapid reading rate and fast settling

Product description

The CM200 is a low-cost bench/portable capacitance meter with a 4½ digit liquid crystal display. It measures capacitance between 1pF and 2,500µF with a basic accuracy of 0.2%.

The CM200 is manual ranging with a reading rate of 3 per second and virtually instantaneous settling. Its long scale length and fast settling mean that the value of an unknown capacitor can be determined very rapidly; more rapidly than with most autoranging meters.

The CM200 operates from internal batteries which provide hundreds of hours of operation, or from an AC line adaptor. It is lightweight and fully portable. Special input sockets provide for the direct connection of a wide variety of capacitor or of standard test leads. A zero control allows up to 25pF of test lead capacitance to be nulled out.



Applications

The CM200 is an ideal instrument for use in such areas as development, production, quality control and component inspection.

The CM200 will allow you to measure unmarked capacitors, check that capacitors are within tolerance, select and match capacitors for critical circuit applications, set trimmer capacitors to a specific value, measure complex series/parallel capacitor networks, measure stray capacitance in cables or switches.

- Fuse protected inputs
- Battery or AC line operation
- Sockets for components or test leads
- Zero control for test lead compensation

The long battery life of the CM200 means that it can be readily moved about from area to area without the need for mains power, and its rugged format will stand up to the toughest environment. A high reading rate and rapid settling combined with easy connection sockets makes it very fast to use.

The CM200 has more resolution than any other low-cost capacitance meter, a feature that is invaluable when matching capacitors and which ensures a very high level of effective accuracy.

Technical Description

The CM200 uses a DC charging principle to measure capacitance. Dual threshold comparators are employed to reduce the effects of dielectric absorption and high speed charging is used to eliminate errors caused by leakage currents. This system gives a typical equivalent measurement frequency of about 100Hz, the most useful frequency for measuring highly frequency dependent components such as electrolytics.

A crystal controlled oscillator combined with ultra high stability reference resistors ensure a very high measurement accuracy.

Technical Specifications

Range	-	1pF to 2,500µF
Accuracy	-	0.2% reading \pm 0.5pF \pm 1 digit (0.8% reading \pm 4 digits on highest range)
Display	-	4½ digit 9mm LCD
Reading rate	-	3 per second
Settling	-	max. 0.65 secs to 1st valid reading
Zero control	-	capable of nulling up to 25pF
Protection	-	fuse protected against charged capacitors
Power Source	-	6 x C cells or AC line adaptor
Battery life	-	500hrs typical, low battery indicator
Dimensions	-	230 x 230 x 60mm (9 x 9 x 2.4")
Weight	-	0.8Kg (1.75lb)

In line with a policy of continuous development Thurlby reserve the right to alter specifications or prices without prior notice

Supplied complete with operating instructions and AC line adaptor

£89 + VAT

Thurlby 
designed and built in Britain

*All Thurlby products
carry a full
12 mth warranty*

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Available from