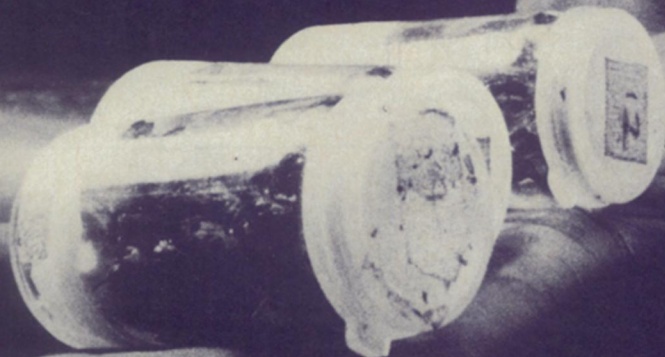


science news

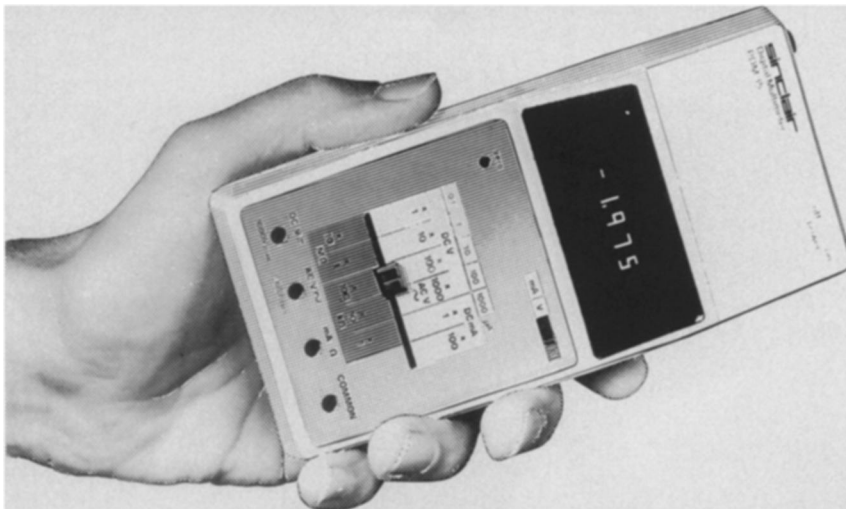
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THE TSETSE TRAP



The Sinclair PDM35.

A personal digital MultiMeter for only \$59.⁹⁵



Now everyone can afford to own a digital multimeter

A digital multimeter used to mean an expensive, bulky piece of equipment.

The Sinclair PDM35 changes that. It's got all the functions and features you want in a digital multimeter, yet they're neatly packaged in a rugged but light pocket-size case, ready to go anywhere.

The Sinclair PDM35 gives you all the benefits of an ordinary digital multimeter — quick clear readings, high accuracy and resolution, high input impedance. Yet at \$59.95 it costs less than you'd expect to pay for an analog meter!

The Sinclair PDM35 is tailor-made for anyone who needs to make rapid measurements. Development engineers, field service engineers, lab technicians, computer specialists, radio and electronic hobbyists will find it ideal.

With its rugged construction and battery operation, the PDM35 is perfectly suited for hand work in the field, while its angled display and optional AC power facility make it just as useful on the bench.

What you get with a PDM35

3½ digit resolution.

Sharp, bright, easily read LED display, reading to ±1.999.

Automatic polarity selection.

Resolution of 1 mV and 0.1 nA (0.0001 μA).

Direct reading of semiconductor forward voltages at 5 different currents.

Resistance measured up to 20 MΩ .
1% of reading accuracy.

Operation from replaceable battery or AC adapter.

Industry standard 10 MΩ input impedance.

Compare it with an analog meter!

The PDM35's 1% of reading compares with 3% of full scale for a comparable analog meter. That makes it around 5 times more accurate on average.

The PDM35 will resolve 1 mV against around 10 mV for a comparable analog meter — and resolution on current is over 1000 times greater.

The PDM35's DC input impedance of 10 MΩ is 50 times higher than a 20 kΩ/volt analog meter on the 10 V range.

The PDM35 gives precise digital readings. So there's no need to interpret ambiguous scales, no parallax errors. There's no need to reverse leads for negative readings. There's no delicate meter movement to damage. And you can resolve current as low as 0.1 nA and measure transistor and diode junctions over 5 decades of current.

Technical specifications

DC Volts (4 ranges)

Range: 1 mV to 1000 V.

Accuracy of reading 1.0% ±1 count.
Note: 10 MΩ input impedance.

AC Volts (40 Hz-5 kHz)

Range: 1 V to 500 V.

Accuracy of reading: 1.0% ±2 counts.

DC Current (6 ranges)

Range: 1 nA to 200 mA.

Accuracy of reading: 1.0% ±1 count.
Note: Max. resolution 0.1 nA.

Resistance (5 ranges)

Range: 1Ω to 20MΩ .

Accuracy of reading: 1.5% ±1 count.

Also provides 5 junction-test ranges.

Dimensions: 6 in. x 3 in. x 1½ in.

Weight: 6½ oz.

Power supply: 9 V battery or Sinclair AC adapter.

Sockets: Standard 4 mm for resilient plugs.

Options: AC adapter for 117 V 60 Hz power. De-luxe padded carrying wallet. 30 kV probe.

The Sinclair credentials

Sinclair have pioneered a whole range of electronic world-firsts — from programmable pocket calculators to miniature TVs. The PDM35 embodies six years' experience in digital multimeter design, in which time Sinclair have become one of the world's largest producers.

Tried, tested ready to go!

The Sinclair PDM35 comes to you fully built, tested calibrated and guaranteed. It comes complete with leads and test prods, operating instructions and a carrying wallet. And getting one couldn't be easier. Just fill in the coupon, enclose a cheque/MO for the correct amount (usual 10-day money-back undertaking, of course), and send it to us.

We'll mail your PDM35 by return!

For Instant Service, CALL TOLL FREE: 1-800-528-6050, EXT. 1052.

Ariz. Res. Call: 1-800-352-0458.

Alaska and Hawaii: 1-800-528-0470, or send coupon:

Starshine Group.

Dept. 486, 924 Anacapa Street, Santa Barbara, Calif. 93101
Please promptly send _____ Sinclair PDM35 Digital Multimeter(s) @ \$59.95 (plus \$3 shipping and insurance) each. I have the option of returning it within 1 week of receipt for an immediate refund.

- Also Send AC Adaptor(s) @ \$4.95 ea.
- Also Send Deluxe Padded Carrying Case @ \$4.95 ea.
- Also Send 30 kV probe @ \$29.95
- Check or Money order Encl. (Calif. Res. add 6% Sales Tax)
- Charge to The Credit Card Checked Below:
- BankAmericard/Visa MasterCard (Interbank # _____)
- American Express Carte Blanche Diners Club

Credit Card # _____ Exp. Date _____

Name _____

Address _____

City/State/Zip _____

Signature _____