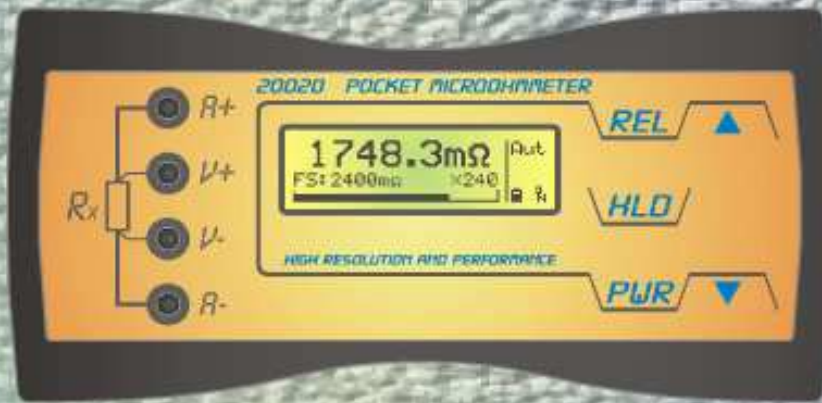


20020 Microohmmeter



24000 points

2400Ω - 100nΩ

20020 is certainly the smallest microohmmeter to world, reaching the exceptional resolution of $0.1 \mu\Omega$ on the lower range of $2400\mu\Omega$ into an instrument by the size of a normal handheld multimeter that can fit in a shirt pocket. It's powered by three standard AA batteries 1.5V with a autonomy that can reach 600 hours.

Although designed for the service in the field, the measure provides a $4 \frac{1}{2}$ digit accuracy more than sufficient for the normal production sector and / or laboratory in an easy to use and great handling in an unusual look. It's capable of measuring the resistive elements included between 2400Ω and $100n\Omega$, even in the presence of inductive components of up to 10H.

- ▶ 24000 measuring points / 5 measurements per second
- ▶ 7 ranges from 2400Ω to $2400\mu\Omega$ (from $100m\Omega$ to $100n\Omega$ of resolution)
- ▶ choice of automatic or manual range measurement
- ▶ graphic display
- ▶ bar graph
- ▶ relative absolute measure
- ▶ compensation of test leads
- ▶ measurement hold
- ▶ backlight on/off
- ▶ adjusting/saving contrast
- ▶ battery operation
- ▶ indication of the state of battery charge
- ▶ automatic shutdown enable/disable
- ▶ automatic shutdown when the battery is exhausted

The instrument has a number of measuring points and a resolution that until now were found only in instruments of a higher category. Also has a speed of measurement and a stability extraordinary thanks to an analog-digital converter of the latest generation.

Allows to measure absolute relative and bar graph provides a quick visual indication of the extent of measuring both the real and relative.

To maximize battery life you can turn off the display backlight, reaching quadruple the length when measuring the higher range.

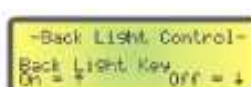
As shown in the pictures below all relevant information is always displayed in the display 128x32 pixels: including range, status of Automatic / Manual Measuring Absolute / Relative, Hold, state of battery charge, disabling automatic shutdown.



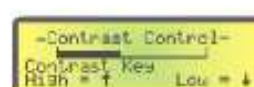
Principal measure with autoranging and auto shutdown disabled.



Relative measurement and hold mode enabled.



On/off backlight display.



Contrast control of display.

TECHNICAL DATA

Power supply	battery 3x1.5V AA type
Minimum operating voltage	0.9V
Battery autonomy	from 10 hour to 600 hour hours depending on the selected range and the state of the backlight
Power consumption by the electronic circuit (without backlight)	less then 20mW (excluding current measurement)
Representation	on backlighted graphic display 32x128 pixel 52x16mm
Point of measure	24000
Display refresh rate	5 Hz
Range	2400,0μΩ, 24,000mΩ, 240,00mΩ, 2400,0mΩ, 24,000Ω, 240,00Ω, 2400,0Ω
Range selection	automatic / manual
Resolution	100nΩ, 1μΩ, 10μΩ, 100μΩ, 1mΩ, 10mΩ, 100mΩ
Measurement accuracy (range 2400Ω - 24mΩ)	±(0,05% + 2 dgt)
Measurement accuracy (range 2400μΩ)	±(0,06% + 3 dgt)
Measure current	500mA, 5mA, 50μA
Compensation power cable / Reset	yes
Relative measurement	yes, absolute
On/off backlight	yes
Auto shutdown	yes, if not disabled the instrument off after 20 minutes of which was the last key press
Maximum inductance	10 Henry / 150 ohm
Weight	270 gr. approximately (batteries included)
Dimension	159x78x34mm (W x H x D)



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