9819 & 9820 Technical Specifications

RESISTANCE SPECIFICATION – 9819 RESISTANCE SPECIFICATION – 9820 Resistance Range: 0.01 ohm to 10K ohm Resistance Range: 0.1 ohm to 100K ohm Resistance Output: Output is on 6 pairs of rear Resistance Output Output is on 6 pairs of rear panel 4 mm terminals panel 4 mm terminals which which divide the resistance divide the resistance into into 6 independent decades 6 independent decades Accuracy: 0.01 ohm ± 10% Accuracy: 0.1 ohm ± 5% $0.1 \text{ ohm } \pm 5\%$ 1 ohm $\pm 0.5\%$ 1 ohm $\pm 0.5\%$ 10 ohm ±0.05%

General Specification

Residual Resistance: < 10 milliohm / decade **Relay Contacts:** Special attention has been given to the problem of Temp. Coefficient: less than 50 ppm/°C reliability. Double pole gold

contacts have been used.

50/60 Hz

100 ohm

1K ohm

10K ohms

± 0.01%

 $\pm 0.01\%$

 $\pm 0.01\%$

110V/120V/220V/240V AC

Remote Interface: GPIB (IEEE488) or RS232 **Maximum Current:** 1 Amp (1 watt max) **Device Address:**

Rear panel switch 0-31**Maximum Voltage:** 100 Volts

Bus Connection: Standard 24 pin GPIB **Operation Time:** 50 ms connector and standard

serial 9 pin DIN.

Power:

Operating Life: 30 million operations

have been kept to a minimum using

special techniques. Operating Temperature: 0 – 40 °C

Dimensions: 480 x 374 x 154 mm Rack Mount Version

520 x 170 x 315 mm Bench Version

Weight: 6 kg Rack Mount Version

> 11 kg Bench Version Bench Case

N.P.L. Traceable Calibration Certificate

10 ohm

1K ohm

Thermal Emfs: <2uV. The internally generated emfs

Power Rating:

Optional Extras:

100 ohm ± 0.01%

± 0.05%

 $\pm 0.01\%$

1 watt max per decade

UKAS Calibration Certificate

Ordering Information

Code	Description
9819	Low Ohm Resistance 0.01 ohm to 10K ohm
9820	Low Ohm Resistance 0.1 ohm to 100K ohm
9047	Bench Case
9163	N.P.L. Traceable Calibration Certificate
9120	UKAS Calibration Certificate

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

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