



Measurements International

A Metrology Based Company



Model 4020A

Automated 4 -Terminal Scanner

*10/20 – 4 Wire Input Channels
Manual or Automated
Front or Rear Outputs
IEEE488 Interface
Low Thermal - Sealed Relays*

General Description:

The model 4020A provides a means to measure a variety of inputs quickly and easily. All inputs are located on the rear of the instrument. The outputs are customer selected to be on the front or rear panels. The relays selecting the input terminals are activated by front panel controls or by commands sent over the IEEE488 Interface Bus.

The model 4020A provides a means by which DMM resistance functions can be calibrated directly against standard resistors or using the DMM to calibrate resistors of the same value using the resistance substitution method of calibrating resistors. The 4020A allows for a variety of resistance thermometry devices or environmental controls to be monitored under control of a computer and DMM.

There are two models available. The 4020A has 20 Four Terminal inputs while the 4010A has 10 Four Terminal inputs available. Input connections are made on the rear panel of each model and output connections are made from the front panel. Both models come equipped with a draft cover to help isolate the rear panel terminals from drafts.

Interconnecting cable may also be ordered with the 4020 series of scanners. The interconnecting wire comes in either two or four conductor configurations. The wire maybe ordered in lengths with screens already attached. No 18 gauge solid copper, silver plated, screened Teflon cable is used.

Model: 4020A

Specifications:

Number of Inputs	20
Operation	Single In/Out
Thermal EMF's	< 50 nanovolts
Error Contribution	< 20 nanovolts
Contact Ratings	Relay - Two Coil Latching
Max Carrying Current	4 Amps (AC/DC)
Max Switching Current	2 Amps (AC/DC)
Maximum Voltage	250 Volts
Maximum Switching Voltage	220 volts
Contact Resistance	<0.05 Ohms
Expected Relay Life	10 ⁸ Operations
Insulation Resistance	>10 ¹² Ohms
Inputs	Tellurium Copper - Rear Panel
Outputs	Tellurium Copper - Front or Rear Panel
Manual/IEEE488	Both
Operating Environment	18 to 34°C, 10 to 80% RH
Warranty	1 Year Parts & Labor

Dimensions:

270 x 450 x 380 mm

Weight:

14 kg

Shipping Weight:

16 kg

Accessories:

4010A - 10 Channel Scanner

Operating Power:

100, 120, 220, 240V - 50/60 Hz

Distributed By:

How to Order:

Model: 4020A - 4 Terminal Scanner

Rev. 02/99/08

Data Subject to Change



Measurements International

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