Model 5012-06XR

Limit Sensing Resistance Tester

Overview

The HebTech, LLC Limit-Sensing Resistance Tester - Model 5012-06XR - designed for production resistance testing in an industrial environment where portability and small footprint are essential. As a high resolution digital ohmmeter, the Model 5012-06XR couples limit-sensing, laboratory precision with the durability required by industrial resistance testing applications, as well as the portability asked for by so many of our customers.

By using a four-wire, Kelvin-based, resistance measurement system, the Model 5012-06XR eliminates the inaccuracies introduced by test lead and contact resistance. When a large number of similar components are to be tested, high and low resistance limits are set using front panel push button thumbwheel switches. Indicator LEDs illuminate when a component's resistance is above, below or within set test limits. An output relay is triggered to permit the automated rejection of unacceptable or improper components.

The Model 5012-06XR makes 100% production testing practical, simple, and economical without giving up superior accuracy and high resolution.

Operating Ranges:

Range	Resolution	Test Current
0.2 Ω	10 uΩ	100 mA
0 - 2 Ω	100 uΩ	100 mA
0 - 20 Ω	1 mΩ	10 mA
0 - 200 Ω	10 mΩ	1 mA
0 - 2K Ω	1 Ω	100 uA
0 - 20K Ω	10 Ω	100 uA
0 - 200K Ω	100 Ω	*10 uA**

** Low* Current *Option Figures*

Test Voltage for Full Scale
200 millivolts up to 2KΩ
2 volts from 20KΩ to 200KΩ

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Accuracy:
± 0.05%, ±1 digit at 25 ° C
± 0.001% per ° C, 0° C to 50° C

Display:
3 ½ digit 0.5" [13mm] LED
4 ½ digit readout on Optional RS-232

Power Requirements:
117VAC ±10%, 50-60Hz, 5 watts
220VAC optional

Available Options:

Temperature Compensation - permits test of components as if they were being tested at laboratory standard temperatures.

Audible Alarm - to announce an 'in tolerance' test. This can speed up manual testing as the operator does not need to look at the meter reading to see if the component is 'in spec'.

Enclosure:
19" x 14" x 3.5" (483mm x 356mm x 89mm)

Calibration:
Certificate of Calibration traceable to NIST with every unit.

