

# Model 5012-06XR



## Overview:

The Harris IRT Enterprises rack mount, limit-sensing resistance tester - Model 5012-06XR - is designed for production resistance testing in an industrial environment where rack mounted test stations are used to protect the equipment from damage. As a high resolution, digital ohmmeter, the Model 5012-06XR couples limit-sensing, laboratory precision with the durability required by industrial resistance testing applications.

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 thumb-wheel 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.

## Specifications:

<u>Range:</u>	<u>Resolution:</u>	<u>Test Current:</u>
0 - .2 $\Omega$	1m $\Omega$	100 mA
0 - 2 $\Omega$	1m $\Omega$	100 mA
0 - 20 $\Omega$	10m $\Omega$	10 mA
0 - 200 $\Omega$	100m $\Omega$	1 mA
0 - 2K $\Omega$	1 $\Omega$	100 $\mu$ A
0 - 20K $\Omega$	10 $\Omega$	100 $\mu$ A

Test Voltage for Full Scale 200 millivolts  
up to 2K $\Omega$  Volts on 20K $\Omega$  to 200K $\Omega$

## Features:

### Accuracy:

$\pm 0.05\%$ ,  $\pm 1$  digit at 25°C  $\pm 0.001\%$  per C  
Rated at 0 - 50 °C

### Display:

3½ digit 0.5in [13mm] LED  
4½ digit via RS-232

### Power Requirements:

117VAC  $\pm 10\%$ , 50-60Hz, 5 Watts  
Optional 230V (with order)

### Enclosure:

19in Rack Mount 3½in high x 13 in deep  
Anodized aluminum construction

## Options:

### Ambient Temperature Compensation

Components are tested, regardless of the temperature of the plant, as if they were being tested at laboratory standard temperature.

### RS-232 Serial Communication

Standard with all -X series units. Allows for data collection from a remote location.

### High Range Option

Provides expanded testing capability from 2.0 Ohms - 200K Ohms.

### Diode Test Option

Tests an inductor for the proper polarity and functional operation of a blocking diode.

### Sample and Hold Option

Permits capture of a resistance reading in a few milliseconds of contact with the tested part.

## HARRIS IRT ENTERPRISES, INC.

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