

# Model 9250-05

## Overview

The High-Speed Resistance Tester – Model 9250-05 from Harris Instrument Corporation is designed for high resolution, high-volume production resistance testing in an industrial environment. As a high resolution, digital ohmmeter, the Model 9250-05 utilizes a powerful digital signal processor (DSP) microcontroller to enable up to 250 readings per second via an RS-232 serial communications link.

The Model 9250-05 is available with a variety of standard and optional features which allow the unit to meet a wide range of industrial resistance testing requirements. The ohmmeter performs four-wire Kelvin-based resistance measurement to eliminate the inaccuracies introduced by test lead resistance. Measurement ranges are selectable via instructions from the customer's host computer with the ability to engage an Auto-Ranging feature for automated range selection.

The standard Model 9250-05 requires a host computer for operation of the commands. An RS-232 serial communications link with the host computer allows entering of commands and output of resistance measurement readings. The optional Temperature Compensation feature permits accurate resistance measurements of hot or cold components as if they were being tested at laboratory standard temperature.



### Harris Instrument Corporation

155 Johnson Drive  
Delaware, Ohio 43015 U.S.A.

(740) 369-3580 Voice

(740) 369-2653 FAX

<http://www.harris-instrument.com>

## Features

### Specifications

Range	Resolution	Test Current
0 - 0.2 ohms	10 microohms	1A
0 - 2 ohms	100 microohms	100mA
0 - 20 ohms	1 milliohm	10mA
0 - 200 ohms	10 milliohms	1mA
0 - 2K ohms	100 milliohms	100uA

### Interface Connections

- ◆ RS-232 DB-25 connector, operator-selectable from 9600 baud (default) up to 57600 baud.
- ◆ Resistance inputs via MS-style circular connector.
- ◆ Logic inputs (SYNC, safety, relay, etc.) available.

### Accuracy (factory configuration)

- ◆  $\pm 0.02\%$ ,  $\pm 1$  digit at  $25^{\circ}\text{C}$  (% of full scale),  $\pm 0.02\%$  per  $^{\circ}\text{C}$ ;  $4\frac{1}{2}$  Digit Resolution; Rated  $0^{\circ} - 50^{\circ}\text{C}$ .

### Reading Rate

- ◆ Up to 250 per second.

### Power Requirements

- ◆ 117VAC  $\pm 10\%$ , 50-60Hz, 1Amp maximum, 220VAC, 50Hz optional.

### Enclosure

- ◆ Standard Rack Mount: 19" [483mm] Anodized Aluminum Case. Benchtop Case optional.



**Industrial  
Resistance  
Tester  
Division**