



### **WRM-10**<sup>™</sup>

#### **Ouick and Accurate Measurements**

The WRM-10 accurately measures winding resistance of highly inductive power transformers. Dual resistance-reading-input channels allow the measurement of two winding resistances simultaneously. Four-wire (Kelvin) connections provide high accuracy and require no lead compensation. Utilizing a 36Vdc power supply capable of outputting up to 10 amperes; the WRM-10 provides stable resist-

## Accurately

## MRIN MENU

ance readings of very large transformers. The resistance reading of a 100MVA transformer can be achieved in 3 minutes or less. The WRM-10 power supply is cooled by two heavy duty fans designed for continuous operation. Since the WRM-10 can accurately measure resistances ranging from 1 micro-ohm to 2,000 ohms, it can also be used to measure EHV circuit-breaker contact resistance, motor winding resistance, and other low resistance test application. A contact test mode checks "make before break" tap-switching sequences.

The WRM-10<sup>™</sup> is supplied with three 50-foot cable sets. Each test cable lead is terminated with a "quick-disconnect" test clip. The WRP-10 power supply is thermally protected from overloaded damage.

#### **Built-in Safety Features**

To ensure the operator's safety, the WRM-10 automatically dissipates the energy stored in the transformer at the end of each test. This discharge circuit will continue to work even in if the WRM-10 supply voltage is lost.

#### **User Interface**

A single-knob user control (a turn-and-push selection) simplifies all WRM- $10^{\text{TM}}$  operating functions. Dual resistance readings are displayed on a 2-line by 16 character backlit LCD. An RS-232C serial interface port provides software upgrade capability and diagnostic testing.

#### **SPECIFICATIONS**

TYPE Special purpose test equipment, portable transformer winding resistance meter

PHYSICAL SPECIFICATIONS 16.8" W by 12.6" H by 10.6" D (42.6 cm x 32.0 cm x 27 cm), Weight 27 lbs (12.2 kg)

**INPUT POWER** 90-130 Vac or 200-240 Vac (selectable), 50/60 Hz

**RESISTANCE READING RANGE** 1 micro-ohm to 2,000 ohms

ACCURACY 1 - 19,999 micro-ohm: ±0.5% reading, ±1 count, 20 - 999 milli-ohm: ±1% reading, ±1 count, 1 - 2,000 ohm: ±1.5% reading, ±1 count

**TEST VOLTAGE** 36 Vdc max

TEST CURRENT RANGE Auto range, 10 Amperes max

**DISPLAY** Backlit LCD, 2 lines by 16 characters

**CONTROL** Single Knob Selector (turn-and-press selection)

**COMPUTER INTERFACE** RS-232C port, 19,200 Baud (Factory Calibration and Diagnostic) **SAFETY** Designed to meet IEC61010 (1995), UL61010A-1, CSA-C22.2

**ENVIRONMENT** Operating: -10°C to 50° C (15°F to +122° F); Storage: -30° C to 70° C (-22°F to +158° F)

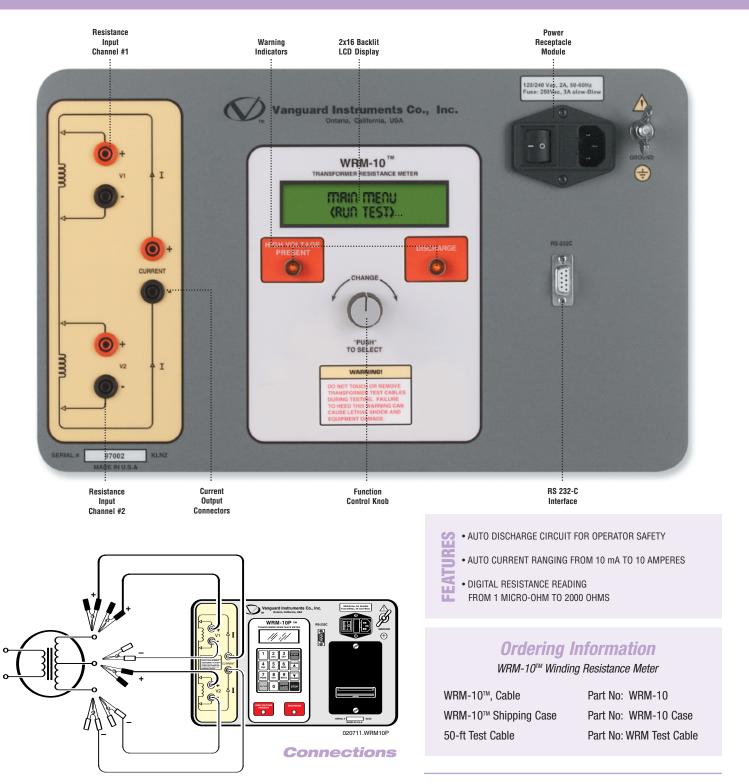
CABLES Three 50-ft test cables, ground cable, power cord and cable bag

**OPTIONS** Shipping Case

WARRANTY One Year Parts & Labor, Post Warranty Service Contract Available

## Lightweight Winding Resistand

# Measure Winding Resistances of Highly Inductive Power Transformers



Note: The above specifications are valid at nominal voltage and ambient temperature of +25°C (+77°F). Specifications are subject to change without notice.

