

WHEN QUALITY IS AN ISSUE, THE CHOICE IS TETTEX

## Scope of supply

Type 2231 Digital Micro-Ohmmeter consists of the following items:

- 4-wire Kelvin measurement test probes set cable length 1.5m
- power cord
- Instruction manual
- calibration certificate

## Order specifications

Pos.	Qty	Digital Micro-Ohmmeter Type 2231
1	2231	1 Digital micro-ohmmeter 0.1 $\mu\Omega$ ...400 k $\Omega$ $\pm$ 0.1 % with computer interface for data transfer (RS 232), Printer-port (Centronics) and 4-wire Kelvin cable set, length 1.5 m
<b>Accessories / Options</b>		
2	026 573	4-wire Kelvin measurement test probes set cable length 1.5m
3	021 992	1 Printer cable 3m
4	022 185	1 Interface cable for RS 232C interface Cable data RS232 9P L=3.0m FM-M =
5	5994	1 Fibre-optic cable for RS 232C interface
6	5945	1 Interface converter RS 232C/IEEE 488
7	8871	1 Wire holding device for resistance measurements on cable or bars ( $\varnothing$ 0.1...25mm)
8	8872	1 Wire holding device for resistance measurements on cable or bars ( $\varnothing$ 0.3...45mm)
9	015 690	1 Cable set for connection to the wire holding device



TYPE 2231

TYPE 2231

DIGITAL MICRO OHMMETER

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## General

The digital Micro Ohmmeter type 2231 is an unique instrument capable of handling even the toughest resistance measurement applications. The type 2231 is designed for measurement of contact resistance of such items as circuit breakers, switchgears or resistance measurement on fuses, cables splices, bus bars, welds, heating elements, battery terminal ballast, heater elements etc. Some features of the type 2231 that give it an edge over competitive products are as follows:

- Full 4 wire Kelvin terminal configuration
- Mains rechargeable battery operation
- Fully selectable test currents up to 10 A
- Available data outputs and remote programming capability via RS 232 interface
- Easy to operate
- Portable, rugged polymer case for industrial applications

## Technical specifications

Range and resolution specifications, please refer to table 1

Environmental, power and physical requirements, please refer to table 2

Resistance Ranges	Test current	Resolutions 4 Digits or	Accuracy ±0.1% rdg and
0.1μΩ.... 40μΩ	10 A with crossing	0.01μΩ	±0.1μΩ
1μΩ..... 40μΩ	10 A	0.1μΩ	±1μΩ
1μΩ..... 1Ω	1 A with crossing	0.1μΩ	±1μΩ
10μΩ..... 1Ω	1 A	1μΩ	±10μΩ
100μΩ ..... 10Ω	0.1 A	10μΩ	±100μΩ
1mΩ..... 400Ω	10 mA	100μΩ	±1mΩ
10mΩ .....40kΩ	1 mA	1mΩ	±10mΩ
40kΩ ....400kΩ	1 mA	1mΩ	±1% rdg

Table 1: Range and resolution specifications

## General specifications

Accuracy:	± 0.1 % of reading
Data storage	99 results
Battery autonomy	700 .. 4000 measurements
Charge time	2 hours
Display:	Graphical Liquid Crystal Display with backlight
Terminal configuration:	Four wire Kelvin
Compliance voltage (normal mode):	2 V DC nominal at 10 A resistive
Printer port:	Centronics
Interface:	RS 232



## Environmental, power and physical requirements

### Environment

Operating temperature range:	0 to 50 °C
Humidity:	
operating:	70 % relative humidity at 40 °C non condensing
closed	100% relative humidity
Storage temperature range:	-30 to 70 °C

### Power requirements

Power supply voltage:	100 to 250 V AC
Power supply frequency:	50 to 60 Hz
Power supply consumption:	80 VA maximum

### Physical dimensions

Dimensions:	
Height:	170 mm, 6.7"
Width:	405 mm, 16"
Depth:	315 mm, 12.4"

Weight:	
	4.9 kg, 10.8 lbs (net weight)
	5.8 kg, 12.8 lbs (brut weight)