CTI45

CTI45 Ohmmeter, Insulation Megohmmeter, microhmmeter

Safety pyrotechnic ohmmeter, Insulation Megohmmeter

Description

The CTI45 is an Ohmmeter, megohmmeter, microhmmeter designed for pyrotechnics safety. It was developed for measurements in industrial environments, controls on production lines and in laboratory. It is designed for measurements on pyrotechnic elements considering user safety. Its main strengths lie in its great versatility and high speed measurement.
Measurement conditions and safety

- Measuring current much lower than the non-fire current
- Connection to the test line only during the measurement period
- Not exceeding a maximum current of safety during a failure of the equipment (electronic failure, internal short circuit, ...)
- Discharge of residual electrostatic charge
- Permanent self-monitoring equipment's internal functions
- External Safety loop enable power measurement circuitry

Functions

- Ohmmeter / microhmmeter: CTI45 has 4 main measurement channels four wire, with the ability to perform cross channel measures to adapt to more complex configuration
- Megohmmeter: It allows isolation measures, taken between 2 of the 4 main Ohmmeter channel with configurable voltage (or fixed at order).
- PT100 function: temperature measurement
- Macro: CTI45 allows groups measurement without user intervention, in the form of macro commands
- Display: Setting the LCD screen to fit your needs
- Communication: Access mode Telnet, TCP or RS232 providing convenient automated control

Main Features

- 4/8 channels
- Ohmmeter ranges: 1Ω/10Ω/100Ω/1KΩ/10KΩ
- Megohmmeter range: 1MΩ/10MΩ/1MΩ/1GΩ
- Megohmmeter test voltage: 45 to 500V, customizable or fixed value
- Bench top or rack 19" 2U P260
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Specifications

Functions:

Ohmmeter:

Ranges	10 Ω	100 Ω	1 kΩ	10 kΩ
Resolution	100 µΩ	1 mΩ	10 mΩ	0.1 Ω
measuring current	10 mA	1.5 mA	250 µA	50 µA

Megohmeter / insulation tester

Ranges	10 MΩ	100 MΩ	1GΩ
Resolution	1 kΩ	10 kΩ	100 kΩ
Measuring voltage	Max. 50 V	Max. 500 V	Max. 500 V

Low resistance measurement : micro ohmeter:

Range	1 Ω
Resolution	1 µΩ
Measuring current	10 µΩ
Accuracy	0.05% + 100µΩ
Measuring time	From <100 ms up to ~1s according to integration time

Other specifications

Power supply

Main specifications:
- Voltage: 85V~ to 264V~ / 45 to 63Hz
- Power: 10W
- Fuses : 2 x 400mA T

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mechanical and environmental specifications

Models and accessories

Rack mounted version
IP 44 version with heavy duty connectors