

MIT410-TC

Multi-purpose Meter for the CATV Telephony Industry



- Insulation resistance testing up to 1000 V and 100 G ohms
- 50, 100, 250, 500 and 1000 V ranges
- Patented analog arc and dual digital display
- CAT IV 600 V rating
- TRMS AC and DC voltage measurements up to 600 V
- Continuity testing
- Three year product warranty
- IP54 rated for difficult working conditions

DESCRIPTION

The new Megger MIT410-TC multi-purpose meter has been designed specifically for use within the telecommunications industry. Unique telecommunications-related features include a soft canvas carrying bag with shoulder strap and rugged snap hook to attach to a tool belt, and a “bed of nails” test lead set. Among the features of the unit are:

- 50-1000 V test ranges.
- Measurement to 100 G ohms at 1000 V.
- Industry best CAT IV 600 V safety rating for all test functions.
- TRMS voltage measurement to 600 V, which allows accurate voltage measurements.
- Patented real-time analog/digital dual display that shows complementary test information simultaneously with the insulation resistance reading.
- IP54 rated for testing in difficult environments
- 3-year warranty.

APPLICATIONS

The unit provides for all metallic and resistive fault testing of the customers’ inside premise wiring including:

- Shorts
- Grounds
- Cross voltage (for multi-lines)
- Voltage measurements (both AC and DC) to determine proper voltage levels for line and signaling voltages.





In addition, the MIT410-TC allows the user to determine the condition of the insulation of the twisted copper premise wiring within the customers' location, which could cause problems for voice over IP services (VOIP). When the insulation becomes weak or brittle, causing cracks or exposing copper within the premise wire, or water ingresses into the wire, the insulation resistance test will identify these situations immediately.

By applying a test voltage, (for customer premise wiring, a voltage level of no more than 500 volts is recommended), the meter will measure the leakage current through the insulation and give the results in ohms. The results can then be reviewed to determine if the premise wire can be used for voice grade services according to the following industry standards:

- Readings greater than 100 Megohms indicate good insulation.
- Readings between 100 Megohms and 90 Meg-ohms indicate marginal insulation (services may or may not work)
- Readings below 90 Megohms indicate bad insulation and further testing is required before service can be installed.

In addition to the insulation resistance test, the meter allows the technician to conduct continuity tests throughout the customer's premise. Simply place a shunt strap at the location of the Modem, then with the meter go to each outlet to test for continuity using the audible alert feature on the meter to determine correct wiring configurations. This feature would replace the need for a tone generator and amplifier.

If you need additional information concerning the telecommunication applications for the Megger MIT410-TC please call Mike Lewis, Sr. Application Engineer at 214-330-3518.

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ORDERING INFORMATION

Item (Qty)	Order No.
MIT410-TC	MIT410EN-BN/TC
Soft case	6420-136
Bed of Nails	EV6231-653
Quick Start Guide	2000-182EDI