

MRCT

Megger Relay and Current Transformer Test Set

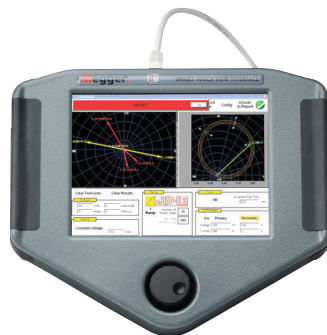


- **Industry leading test duration using patented simultaneous multi-tap measurements reduces testing time by 20% on multi-tap CT's**
- **Accuracy to support testing of metering and protection class CT**
- **Integrated single phase relay test system**
- **Grouped testing: demagnetization, knee points, ratios, saturation curves, winding resistance insulation and more**
- **Measure all ratio's and saturation curves on multi-tap CT's with one lead connection**
- **Optional DC excitation technique for testing CTs with kneepoints up to 30 kV**
- **Optional Integrated VT and CT test system**

DESCRIPTION

The Megger MRCT is a light weight, robust, portable unit used to perform demagnetization, ratio, saturation, winding resistance, polarity, phase deviation, and insulation tests on current transformers. The MRCT automatically calculates ratio errors, saturation curves, and knee points. The MRCT provides a microprocessor-controlled variable voltage and current output and precision instrumentation for automatically testing single and multi ratio CTs, reducing testing time and increasing productivity. The MRCT will directly connect to multi ratio CT's and perform all tests – saturation, ratio and polarity, winding resistance and insulation – on all taps with the push of a button and without changing leads.

The MRCT can be controlled via Megger's Smart Touch View Interface (STVI) controller. The STVI controller is a full color, high resolution, LCD touch screen which allows the user to perform manual and automatic testing quickly and easily using the manual test screen, as well as using pre-constructed test routines. The large color display permits the user to easily read all pertinent data while the test is being performed and provides the ability to view the current transformer's saturation curve. The unit can also be configured to come without a Megger STVI and can be controlled via a laptop with Megger's PowerDB software.



Current transformers can be tested in their equipment configuration, such as being mounted in transformers, oil circuit breakers or switchgear. It is necessary for the equipment to be completely isolated from the electrical system prior to testing.

APPLICATIONS

Saturation Test

With the single push of a button, the MRCT performs a CT saturation test and calculates the rated knee point. The saturation test can be performed at frequency of 50 or 60 Hz up to 2,000 volts as required by IEC regulations.

In addition the MRCT can be configured to test kneepoints up to 30 kV using an alternative DC technique. This allows testing the majority of CTs using line frequency while still being able to test larger generation class CT with a portable instrument.

The MRCT will calculate the rated knee point in compliance with either IEEE C57.13.1, IEC 60044-1, IEC 60044-6 or IEC 61869 on both standards as well as of specialized CTs such as PX, TPS, TPX, and TPY. While the saturation test is being performed, the MRCT will plot the CT saturation curve on the STVI display and automatically provide the user with the rated knee point per the desired IEEE or IEC standard. Many substations CTs include a multi-ratio secondary; therefore the MRCT has the ability to plot and simultaneously display up to 10 CT saturation curves.



Ratio, Polarity Test

Ratio testing can be performed by using the MRCT. The method used by the MRCT compares a voltage applied to the secondary winding to the resulting voltage produced on the primary winding. For example, if 1 volt per turn is applied to the secondary winding, the voltage present on the primary winding would be 1 volt. More specifically, if 120 volts were applied to the secondary of a 600:5 current transformer (120:1 ratio), 1 volt would be present on the primary winding.

Winding Resistance Test

Measures CT winding resistance with the injection of a test voltage, measuring the DC current and calculating temperature compensated resistance.

Demagnetization

Normal operating conditions and typical winding resistance measurements can cause a CT to become magnetized. The MRCT has the ability to automatically demagnetize the CT under test. This automatic demagnetization routine is useful to ensure that the CT saturation test yield correct results. Prior to testing demagnetization is recommended per both ANSI and IEC standards.

CT Burden

The MRCT measures the connected CT burden load with direct injection of secondary current to a load that is disconnected from the CT. The MRCT measures the secondary voltage in magnitude and angle of the connected burden in VA and power factor.

Insulation Resistance Test

In order to ensure that the CT secondary wiring is properly insulated, the MRCT system includes a 500 V, 1,000 V insulation resistance test system. This test ensures that the CT secondary winding and secondary wiring is properly insulated per both ANSI and IEC standards.

The MRCT will also automatically switch the test leads to perform all required insulation test. These test include H-L, H-G, L-G.

Note: Disconnect all electronic loads before performing this test.

Data Storage and Printing

The MRCT test system not only permits accurate and automated CT testing, but also catalogs and stores test results within the STVI for simple retrieval by software at a later date. All cataloged test results can be uploaded to Megger's PowerDB™ Lite for report generation and saturation curve plotting on a computer or STVI. PowerDB Lite also has the ability to operate the MRCT with no operator intervention, thus providing a completely computer controlled automated test system.

Upgradeability

The MRCT includes the ability to upgrade testing capability. With various configurations and accessories the MRCT system can be upgraded as new testing needs are developed.

FEATURES AND BENEFITS

- **Industry leading test duration using patented simultaneous multi tap measurements** - The MRCT system can provide concurrent measurement of voltages on all taps during CT saturation, and ratio and polarity testing. This allows the MRCT system to calculate the knee points and ratios of all windings at the same time thus eliminating the need for multiple tests on a CT. This will drastically reduce testing time.



The MRCT is available in 2 onboard display/enclosure options.

- **Automated Test Plans with CT Saturation, Ratio and Polarity, Winding Resistance and Insulation Testing** - The microprocessor controlled output fully automates testing of CTs. The MRCT will directly connect to multi ratio CTs and perform all tests – saturation, ratio and polarity, winding resistance, and insulation – on all taps with the push of a button and without changing leads.
- **Direct Connection to Multi Ratio CTs** - The MRCT will directly connect to all taps on multi ratio CTs to eliminate lead changes required to test all inner-winding CT ratios, saturation curves and knee points. The MRCT will test all programmed taps with the push of one button.
- **Full Color, High Resolution, LCD Touch Screen** - Menu screens and touch screen function buttons are provided to quickly and easily select the desired test function. Tests results can be saved to the unit for download to a memory stick to transfer or print test reports.
- **CT Saturation, Ratio and Polarity, Winding Resistance, and Insulation Automated Testing** - The microprocessor-controlled output fully automates testing of CTs. This automated testing simplifies CT testing and reduces testing time. Automated testing is accomplished directly on the Megger's STVI or via PowerDB Lite.
- **CT Demagnetization** - During operation and routine DC winding resistance testing, it is possible for a CT to become magnetized. The MRCT includes an automated CT demagnetization function, which allows determination of accurate knee point and ratios thus providing stable, repeatable test results, and reduces test time.
- **Insulation Test** - The MRCT includes a 500/1,000 V insulation test system to verify the CT secondary winding and secondary wiring. This insures that the secondary insulation has not degraded and will continue to perform its function during high current faults.
- **Test Result Report** - The MRCT offers storage of complete test files in an easy-to-use, versatile format that permits upload to PowerDB Lite, or printing test results using the optional external printer. These options provide a simple, complete, easy way to store over 200 test results and saturation curves. All test results can be cataloged and stored in the MRCT.

SPECIFICATIONS

Input	100 to 132 V or 200 to 264 V, 1ø, 50 or 60 Hz, 15 A max.
--------------	--

Output

Voltage	Continuously variable in three ranges: 0 to 30 V at 5.0 A max (15 minute on, 5 minute off) 0 to 300 V at 1.0 A max (15 minute on, 5 minute off) 300 to 2000 V at 1.0 A max (5 minute on, 5 minute off)
----------------	---

Current

Output Current	Power Max V/Duty Cycle
30 Amperes	200 VA (282 peak) 6.67 V rms (15 minutes on, 5 minutes off)
60 Amperes	600 VA 90 cycles

Instrumentation

Voltmeters

Output

Resolution	0.0000 to 1.9999/19.999/199.99/1999.9
Ranges	0 to 2/20/200/2000 V
Accuracy	±0.5% of reading typical ±1.0% of reading typical max

Input

Primary Voltage Measurement

Ranges	0 to 0.35/2.0/20.0/200.0/600.0 V
Resolution	0.0001 to 1.9999/19.999/199.9/600 V
Accuracy	±0.02% of reading and ±0.2% range typical ±0.05% of reading and ±0.5% range maximum

Secondary Voltage Measurement

Ranges	0 to 2/20.0/200.0/2000.0 V
Resolution	0.0000 to 19.999/199.9/1999.9 V
Accuracy	0 to 999.9 V ±0.02% of reading and ±0.2% range typical ±0.05% of reading and ±0.5% range maximum 1000 to 2000 V ±0.08% of reading and ±0.8% range typical ±0.2% of reading and ±0.2% range maximum

Ammeter

Output

Ranges	0.0 to 1.0/10.0/60.0 A
Resolution	.001/.01

Input

Excitation curve testing

Range	0.0000 to 0.1/1.0/8.0 A
Accuracy	±0.08% of reading ±0.8% range typical ±0.2% of reading ±0.2% range maximum

Phase Angle Measurement

3 digits

Range	0 to 360 degrees
Resolution	1 minute

Accuracy	±3 minutes typical ±6 minutes maximum
-----------------	--

Ratio Test

Secondary Voltage Injection Method

Range	Accuracy
0.8 to 2000	±0.02% typical ±0.05% maximum
2000 to 5000	±0.03% typical ±0.1% maximum
5000 to 20000	±0.05% typical ±0.2% maximum

Winding Resistance Test

Measuring Range	0 – 30 Ω
Accuracy	(at 20° C) ±1%, 0 – 30 Ω

Insulation Test

Test Voltage	1000 VDC, 500 VDC
Measuring Range	20 GΩ, 10 GΩ
Short Circuit Current	1.5 mA nominal
Test Current on Load	1 mA at min. pass values of insulation (as specified in BS7671, HD 384 and IEC 364)
Accuracy	1000 volts ±3% ±2 digits ±0.2% per GΩ 500 volts ±3% ±2 digits ±0.4% per GΩ

Communication Interfaces

Environment

Humidity	Relative humidity 5%...95% not condensing
Operating	-10° C to 50° C
Storage	-30° C to 70° C
Enclosure	The unit is housed in a rugged enclosure suitable for use in outdoor substations.

Standards

Input Power	100 to 240 V (±10%) AC, 50/60 Hz
--------------------	----------------------------------

Dimensions

Weight

CE Marking	Low voltage directive	2006/95/EC
	Electromagnetic Compatibility Directive	2004/108/EC

Conformance Standards

Safety	
EN 61010-1	2010
EN 61010-2-030	2010
EN 61010-031	2002
EN 61010 +A1	
EMC	
EN 61326-1	2006
EN 61326-2-1	2006

DESCRIPTIONS OF HARDWARE OPTIONS AND ACCESSORIES

CURRENT TRANSFORMER TESTING (CT) USING DC VOLTAGE OPTION

DESCRIPTION

The MRCT can be configured to include the functionality to perform the excitation test on current transformers using DC voltage. With this configuration the MRCT can measure knee points on current transformers up to 30 kV. When the MRCT is configured to test in AC mode, the unit will perform the saturation test using AC voltage up to 2 kV. If the CT requires additional voltage above 2 kV to saturate, the MRCT will switch to DC voltage and complete the saturation of the CT. The MRCT will then convert the DC data to its AC equivalent and combine both sets of data into one excitation curve representing of the CT. On the other hand, if the MRCT is set to perform the excitation/saturation test using primarily DC voltage, then the MRCT will apply AC voltage up to 300V and then switch to DC voltage to finish saturating the CT. Again this data set will be combined and converted to line frequency either 50/60 Hz and a representative excitation curve created.

APPLICATIONS

As part of a regular maintenance program to verify factory readings and locate the presence of defects in current transformers, the MRCT can accurately perform the excitation test on CTs and measure the knee point up to 2 kV using AC voltage. For CTs that have a knee point higher than 2 kV the MRCT can be configured to utilize DC voltage to saturate the CT and accurately measure the knee point up to 30 kV.

DC VOLTAGE TESTING OPTION SPECIFICATIONS

CT Testing Using DC Voltage	Outputs	
	Output Voltage	0 to 300 V DC
	Output Current	0 to 1 A eff
	Output Power	300VA

RELAY OPTION SPECIFICATIONS

Outputs	All outputs are independent from sudden changes in line voltage and frequency. This provides stable outputs not affected by sudden changes in the power source. All outputs are regulated so changes in load impedance do not affect the output.
Output Current	Output power ratings are specified in AC rms values and peak power ratings.

Output Current Power Max V / Duty Cycle	1 ampere 15 VA 15.0 V rms continuous
	4 amperes 200 VA (282 peak) 50.0 V rms continuous
	15 amperes 200 VA (282 peak) 13.4 V rms continuous
	30 amperes 200 VA (282 peak) 6.67 V rms continuous
	75 amperes 300 VA (424 peak) 5.00 V rms 90 cycles
	DC 200 Watts

AC Voltage Output	Outputs are rated with the following Ranges: Output volts power max I 30 volts 150 VA 5 amps 150 volts 150 VA (see Power V) 300 volts 150 VA 0.5 amps DC 150 watts Duty Cycle: Continuous
--------------------------	--

Metering	Measured output quantities such as AC amperes, AC Volts, DC volts or DC amperes, and time may be simultaneously displayed on the large, color TFT LCD, optional STVI touch screen. The AC and DC outputs display the approximate voltage/current output prior to initiation of the outputs.
-----------------	---

AC Voltage Amplitude

Accuracy	±0.05% reading + 0.02% range typical, ±0.15% reading + 0.05% range maximum
Resolution	.01
Measurements	AC RMS
Ranges	30, 150, 300V

AC Current Amplitude

Accuracy	±0.05% reading + 0.02% range typical, ±0.15% reading + 0.05% range maximum
Resolution	.001/.01
Measurements	AC RMS
Ranges	30, 60A

DC Voltage Amplitude

Accuracy	0.1% range typical, 0.25% range maximum
Resolution	.01
Measurements	RMS
Ranges	30, 150, 300V

DC Current Amplitude

Accuracy	±0.05 % reading + 0.02 % range typical, ±0.15 % reading + 0.05 % range maximum
Resolution	.001/.01
Measurements	RMS
Ranges	30A

DESCRIPTIONS OF HARDWARE OPTIONS AND ACCESSORIES

VOLTAGE TRANSFORMER (VT) TESTING OPTION

DESCRIPTION

The MRCT can be configured to include the functionality to test voltage transformers. With this configuration the MRCT can measure ratio errors and phase angles as well as the secondary winding resistance, excitation characteristics, and impedance of inductive voltage transformers. Additionally, with an output of up to 2 kV the MRCT can measure ratio errors of low to medium voltage capacitive coupled voltage transformers up to 800 kV.

APPLICATIONS

As part of a regular maintenance program to verify factory readings and locate the presence of defects in voltage transformers, the MRCT can accurately measure the ratio, phase displacement, secondary winding resistance, excitation characteristics, and impedance. The MRCT utilizes up to 300V to accurately measure the ratio and phase angle of inductive voltage transformers. Also with the additional CVT configuration the MRCT has the capability to supply over 2000V to measure the ratio of low to medium voltage capacitive voltage transformers up to 800 kV.

VT and CT OPTION SPECIFICATIONS

Inductive VT Testing

Outputs	Output Voltage	0 to 300 V AC
	Output Current	0 to 1 A eff
	Output Power	300VA

Ratio Measurement

Voltage ratio	Voltage Level	Accuracy
1 to 350	.6 kV to 35 kV	±0.03% typical ±0.1% maximum,
350 to 1100	35 kV to 110 kV	±0.05% typical ±0.2% maximum,
1100 to 2450	110 kV to 245 kV	±0.05% typical ±0.5% maximum.

Phase Angle Measurement

Voltage ratio	Voltage Level	Accuracy
1 to 350	.6 kV to 35 kV	±3 min typical ±6 min maximum,
350 to 1100	35 kV to 110 kV	±3 min typical ±10 min maximum,
1100 to 2450	110 kV to 245 kV	±3 min typical ±15 min maximum.

Winding resistance measurement

Resolution	1m Ω
Range	1m Ω to 30 Ω
Guaranteed Accuracy	(at 20° C) ±0.5% + 10m Ω

Capacitive VT Testing

Outputs	Output Voltage	0 to 2050 V AC
	Output Current	0 to 1 A
	Output Power	2000 VA

Ratio Measurement

Voltage ratio	Voltage Level	Accuracy
300 to 8000	>30 kV to 800 kV	±0.07% typical ±0.15% maximum,

Phase Angle Measurement

Voltage ratio	Voltage Level	Accuracy
300 to 8000	>30 kV to 800 kV	±6 min typical ±15 min maximum,

Winding resistance measurement

Resolution	1m Ω
Range	1m Ω to 30 Ω
Guaranteed Accuracy	(at 20° C) ±0.5% + 10m,Ω

ORDERING INFORMATION

Style Number Identification

Model MRCT -

- S**
 - 0**
 - Reserved for future use
 - 1**
 - Multi Function Testing Option**
 - C = CT testing only
 - R = Relay testing and CT testing
 - V = CT testing and Inductive VT testing
 - B = CT testing: Inductive VT testing and Capacitive VT testing
 - T = Relay testing; CT testing and Inductive VT testing
 - A = Relay testing; CT testing: Inductive VT testing and Capacitive VT testing
 - Internal Software Option**
 - 0 = Without
 - 1 = IEC61850 GOOSE message Enabled
 - 2 = Enhanced RTMS Enabled
 - 3 = IEC61850 GOOSE & Enhanced RTMS Enabled
 - Integrated Insulation Test**
 - N = No integrated insulation resistance test
 - R = Integrated insulation resistance test
- M**
 - 0**
 - Reserved for future use
 - 1**
 - Test Leads Option**
 - N = Without leads
 - S = Standard leads
 - K = Kelvin leads
 - L = Long leads
 - Bluetooth Options**
 - 1 = With Bluetooth
 - 0 = Without Bluetooth
 - Reserved for future use**
 - Onboard Display/Enclosure**
 - 0 = No onboard display w/small enclosure
 - 2 = Onboard display w/long enclosure
 - Power Cord Option**
 - A = North American power cord
 - I = International power cord
 - E = Continental Europe power cord
 - U = United Kingdom
 - Overlay Option**
 - 1 = ANSI Overlay
 - 3 = IEC Overlay
 - 4 = Russian Overlay

DESCRIPTIONS OF HARDWARE OPTIONS

Testing Method

Customer can choose which method the MRCT will use to perform the excitation test. By selecting **S** the customer will be selecting the standard method of performing the excitation/saturation test. The MRCT will be configured to use AC test voltage up to 2 kV to perform the test. By selecting **D** the customer will receive both the standard method of testing described above as well as Megger's new DC excitation technique. With its new DC method the MRCT will be able to test kneepoints up to 30 kV.

Multi Function Testing Option

Customers can choose which type of testing functionality they want the MRCT unit to come with. Customers should select letter **C** if they wish for the MRCT to be configured for testing CT only. **R** should be selected if the customer wishes for the MRCT to test both CT and also have the capability to test single phase relays. The customer should select **V** if they desire the MRCT to be configured to test both CTs and Inductive VTs but not include the functionality to test single phase relays of Capacitive VTs. The customer should select the letter **B** if the desired MRCT should be configured for testing CTs, Inductive VTs, and Capacitive VTs. By selecting **T** the MRCT will be configured for testing CTs; Inductive VTs, and single phase Relays. If the customer desires for the MRCT to be configured for all testing capabilities, the letter **A** should be selected and the MRCT will be configured for testing CTs, Inductive VTs, Capacitive VTs, and single phase Relays

IEC 61850 Option

If the MRCT is configured to test relays, Megger GOOSE Configurator software may be used in the testing or commissioning of IEC 61850 compliant devices. In order for the MRCT to be able to subscribe as well as publish GOOSE messages, the MRCT must be configured to test relays and the IEC 61850 feature needs to be enabled. Enter the number **1** for the unit to come with the IEC 61850 option enabled. Enter **0** for the unit without IEC 61850 enabled.

Integrated Insulation Test

Enter **R** for the unit to come with an integrated insulation resistance test capability. Enter **N** for the unit without an integrated insulation test

Bluetooth Option

For customers who wish to have a wireless control of the MRCT unit, enter the number **1** for the unit to come with the Bluetooth option installed. Enter **0** for without.

Power Cord Option

Customers can choose which type of power cord they want the unit to come with.

A option – NEMA 5-15 to IEC60310 C13 connectors, UL & CSA approved for countries with NEMA outlets.

I option – International color coded wires (light blue, brown and green with yellow stripe) insulation jacket stripped ready for male connector with IEC 60320 C13 connector. CE marked.

E option – CEE 7/7 Schuko plug to IEC 60320 C13 connector. CE marked.

U option – United Kingdom power cord with IEC 60320 C13 connector, and 13 amp fuse. CE marked.

Test Leads Option

Enter the letter **N** for the unit without test leads. Enter the letter **S** for the unit to come with set of standard test leads. Enter the letter **K** for the unit to come with Kelvin test leads. Enter the letter **L** for the unit to be supplied with both secondary (X) and primary (H) test leads that are longer than the standard secondary and primary test leads.

Test Leads and Accessories

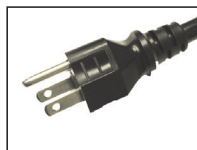
All units come with a power cord (see power cord option), and Ethernet communication cable, and instruction manual CD. All other accessories vary depending on the options selected, see table of optional accessories

TEST LEADS AND ACCESSORIES

All units come with a power cord, an Ethernet communication cable, and instruction manual. All other accessories varies depending on the features selected, see Table of Accessories.

Included Standard Accessories

Description	Part Number
Power Cord - Depending on the style number, the unit will come with one of the following,	
Line cord, North American	620000
Line cord, Continental Europe with CEE 7/7 Schuko Plug	50425
Line cord, International color coded wire	15065
Line cord, United Kingdom	90002-989
Ethernet cable for interconnection to PC, 210cm (7 ft.) long (Qty. 1 ea)	90003-594
Instruction manual	81757



620000



50425



90002-989

TABLE OF ACCESSORIES

Accessories are supplied with the selection of the various features depending upon the option selected. Test Leads and Accessories can also be ordered individually, see below for accessories included with option and part numbers.

STANDARD LEADS

Accessories included in standard set of test leads.


2003-725
Accessory Carry Case (1 each)

Use to carry power cord, Ethernet cable, Optional STVI and test leads.


684004
Cable/Spade lug adapter (small, 5 each)

Small lug fit most new relay small terminal blocks. Lug adapter, red, 4.1 mm, rated up to 1000 V/ 20 Amps CAT II


1005-466
Set of primary test leads (1 each)

Test Leads, 40ft (12.1m)


684005
Cable/Spade lug adapter (small, 5 each)

Small lug fit most new relay small terminal blocks. Lug adapter, black, 4.1 mm, rated up to 1000 V/ 20 Amps CAT II


1005-774
Set of secondary test leads (1 each)

5 Tap (X1, X2, X3, X4, X5) Test Leads, 20ft (6.096m)


90004-599
Screw in banana test jack (5 each)

83726
USB memory stick (1 each)

2003-724
Ground lead (1 each)

green with yellow, with large ground clip, 20 ft


640266
Large test clip (1 each)

red, 40mm opening


90004-427
Alligator clip (5 each)

Black, 4.1mm


640267
Large test clip (1 each)

black, 40mm opening

KELVIN LEADS

Accessories included in Kelvin set of test leads.



1004-424
Kelvin test leads (1 each)

black, 20ft
substituted for standard secondary
test lead 1005-774

LONG LEADS

Accessories included with long leads option.



1008-680
Set of Primary Test Leads (1 each):

Black 60ft (18.28)
Substituted for standard primary
test lead 1005-466 40ft (12.19m)



1008-780
Set of Secondary Test Leads (1 each):

Black 30ft (9.14)
Substituted for standard secondary
test lead 1005-774 20ft (6.09m)

RELAY OPTION

Accessories included with relay option.



2001-394
Sleeved Pair of Test Leads:

Keeps the test leads in pairs and from
getting entangled. Sleeved Test Leads, one
red, one black, 200 cm (78.7") long, 600 V,
32 Amperes CAT II



2005-477
Clips (1 each)

Black



2005-478
Clips (1 each)

Red

684004

Cable/Spade lug adapter (small, 5 each)



Small lug fit most new relay small terminal
blocks. Lug adapter, red, 4.1 mm, rated up
to 1000 V/ 20 Amps CAT II



2001-573
Jumper lead

Used to common returns together on units
with floating ground returns, or parallel of
current channels. Jumper lead, black,
12.5 cm (5") long, use with voltage /
current outputs, 600 V, 32 Amps CAT II

OPTIONAL ACCESSORIES

1006-492

Hard-Sided transit case w/integrated display

1003-884

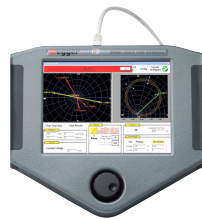
Hard-Sided transit case w/o integrated display



Includes custom designed foam inserts
for the MRCT unit and accessory case.
Transit case includes retractable handle,
polyurethane wheels with stainless steel
bearings, double-throw latches, fold down
handles, and stainless steel
hardware and padlock protection, with
O-ring seal making the case water-tight,
with an IP 67 rating. Tested and certified
to US Department of Defense Standards
for impact, vibration, and low/high storage
temperatures. The case is small, and weighs
only 25 pounds (11.25 kg).

STVI-1

Smart Touch View Interface



The Smart Touch View Interface™ (STVI)
is Megger's handheld controller for the
MRCT, the SMRT and the older MPRT
relay test systems. The STVI, with its large,
full color, new high resolution, and high
definition TFT LCD touch screen allows
the user to easily control the MRCT
using built in MRCT test screens, as well
manual routines for current transformers.
Ergonomically designed for either right
or left hand operation using the rubber
cushion grips, the centrally located control
knob, and the touch screen, the STVI is
extremely easy to use. Use the new built-
in stand for single-handed operation. The
STVI uses a standard Ethernet cable, and
Power Over Ethernet (POE) operation. The
STVI includes non-volatile built-in data
storage for saving tests and test results. A
USB port is provided for transferring test
results to your PC.