

Multi-Function Telecom Cable Tester Models 1035 & 1039



The new AEMC® Digital/Analog Megohmmeters Models 1035 and 1039 are innovative in the design of multiple voltage insulation, resistance and continuity meters.

They incorporate the latest measurement technology and are specifically designed to the most recent international insulation and continuity testing standards, as well as EN 61010-1, 600V Cat. III, IEC 61557 safety standards.

Their rugged construction is unique in Megohmmeters. A slip-proof and shock-proof holster is directly over-molded on the high impact polycarbonate case. The overall ergonomic shape fits

naturally into the hand and the two back case ridges facilitate a firm grip on the meter. The case is sealed against water and dust with an IP44 (Index of Protection), NEMA 2 rating.

Digital and analog features are enhanced by a third digital display, which indicates alarm set point or elapsed test time.

Both models measure insulation resistance to 20,000M Ω with 1mA of test current required by IEC 61557 at the rated test voltage. Each model incorporates a 600V voltmeter, which automatically detects and accurately displays AC/DC voltages in the test circuit in each of the insulation test

voltage ranges. Above 25V, it also provides an audible and visual signal and inhibits further tests, thus protecting the user and the meter. After an insulation resistance measurement, the megohmmeter will automatically discharge the circuit and display the remaining capacitive voltage of the test sample.

The Model 1039, ideal for telecom applications, also measures cable length to 80.0 kilometers and capacitance to 4000nF. A 400mA AC range is available for direct current measurement or it can be used with an AC current probe with a mA output.



The Right Source For Your Test & Measurement Needs

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Features

- True Megohmmeter
- Test voltage combinations of 50V, 100V, 250V and 500V
- Insulation measurements to 20,000M Ω (20G Ω) (Model 1035)
- Insulation measurements to 4000M Ω (Model 1039)
- Capacitance measurement to 4000nF (Model 1039)
- Cable length measurement to 80.0km (>264,000 ft) (Model 1039)
- Automatic test inhibition (if live sample >25V)
- Automatic discharge for operator safety
- Multi-line 4000-count backlit digital display with analog bargraph
- Resistance, 200mA continuity and alarm functions
- Over-molded slip proof holster for rugged field use
- EN 61010-1, 600V Cat. III, IEC 61557 and CE rated
- Double Insulation
- CE Mark

Applications

- Cable testing (including telecom)
- Telephone line resistance and capacitance imbalance
- Measure cable length and capacitance
- Line to line imbalance
- Line to line capacitance
- Off hook detection
- Center station voltage testing

Input Connections



Model 1035



Model 1039

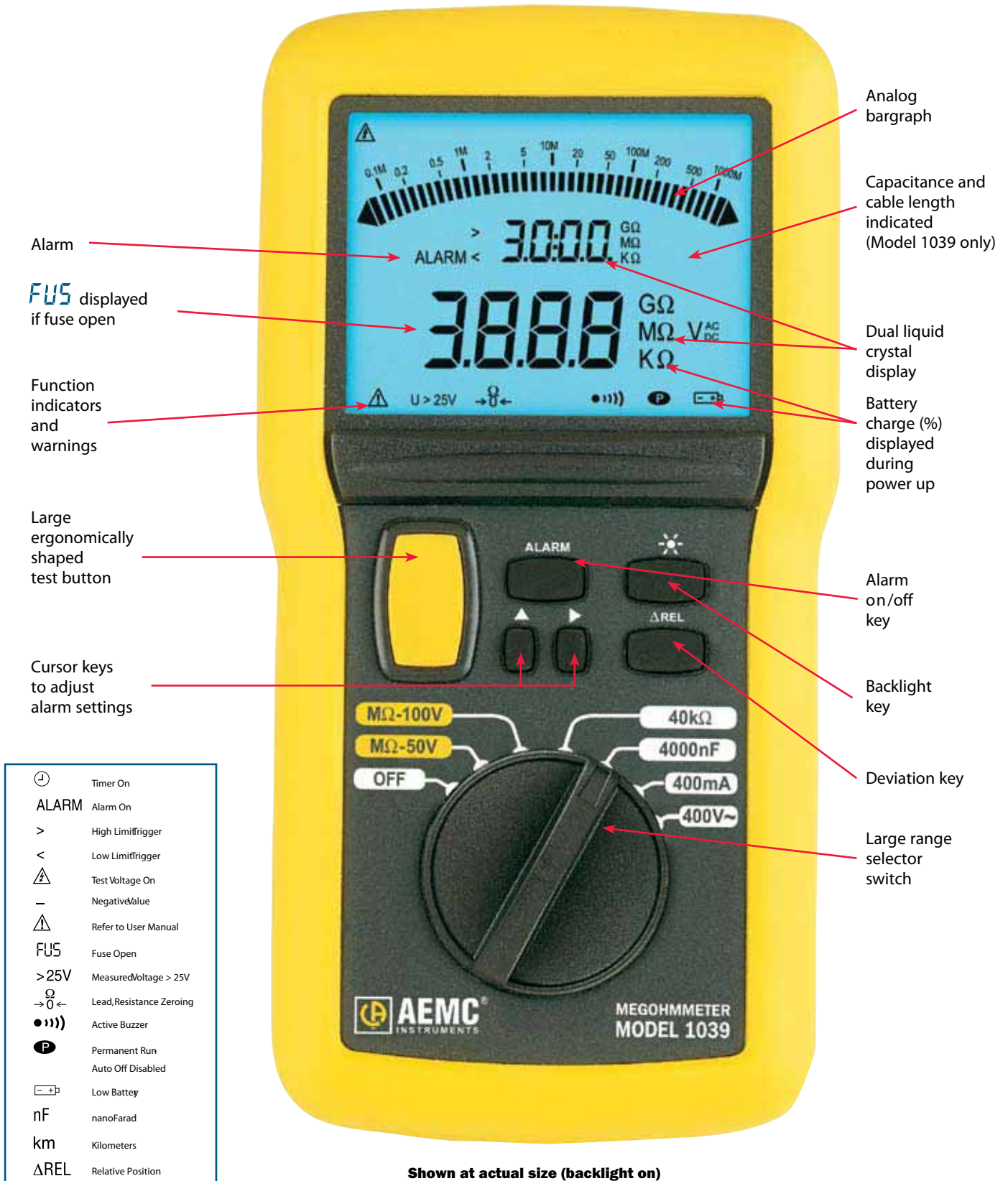


Safety rated 1000V clips provide quick and easy connection of test points for the Model 1039.

Key Components

Straightforward layout & intuitive operation

For telecom and low voltage, low current applications



FUN CTION	MODEL 1035	MODEL 1039
50V (400M \square)	-	\square
50V (2000M \square)	\square	-
100V (400M \square)	-	\square
100V (2000M \square)	\square	-
250V (20,000M \square)	\square	-
500V (20,000M \square)	\square	-
VoltageTester/Safety Check (600VAc/bc)	\square	\square
Guard Terminal	\square	-
\square REL	\square	\square
Resistance (400k \square)	\square	-
Resistance (40k \square)	-	\square
Backlight	\square	\square
AC Voltage (0 to 400VAc)	-	\square
Capacitance (to 4000nF)	-	\square
Cable Length (80km)	-	\square
AC Current Measurement(0 to 400mAAC Direct)	\square	-
Alarm (setpoint, <, >)	\square	\square

FUN CTION	MODEL 1035	MODEL 1039
RemoteTest Probe	\square	\square
Digital Dual Display	\square	\square
Analog Bargraph	\square	\square
Auto-Off	\square	\square
VoltageDetection (>25V)	\square	\square
Safety Test Inhibitor	\square	\square
AutomaticDischarge	\square	\square
Fuse Protection		\square
Auto Fuse Check	\square	\square
Low Battery	\square	\square
Battery Capacity (%) Indication	\square	\square
Auto-Off Disable	\square	\square
EN 61010-1, 600V Cat. III	\square	\square
Agency Approval	CE Mark	CE Mark
Optional HandsFree Carrying Case	\square	\square
Optional Waterproof Field Case	\square	\square
OptionalAC CurrentProbe	-	\square

Specifications

MODELS	1035	1039	
ELECTRICAL			
INSULATION TESTS			
Test Voltage	50V 100V 250V 500V	10k \square to 2000M \square (2G \square) 20k \square to 2000M \square (2G \square) 50k \square to 20,000M \square (20G \square) 100k \square to 20,000M \square (20G \square)	0.01 to 400M \square 0.02 to 400M \square - -
Short Circuit Current	\square 3mA	\square 3mA	
Accuracy	\pm 3% of Reading \pm 5cts	\pm 3% of Reading \pm 5cts	
AutomaticDischarge	Yes, with voltage display	Yes, with voltage display	
VoltageTest/Safety Check	0 to 600VAc/bc	0 to 600VAc/bc	
Voltage Warning Indicator	>25V	>25V	
Test Inhibition	Yes >25V	Yes >25V	
Guard Terminal	Yes	-	
RESISTANCE TESTS			
Measurement Range	0.0 to 400k \square	0.0 to 40.0k \square	
Test Voltage	7 to 9V	7 to 9V	
Test Current	600 μ A < 400 \square ; 6 μ A > 40 \square	600 μ A < 400 \square	
Accuracy >400 \square	\pm 3% of Reading \pm 1ct	\pm 3% of Reading \pm 1ct	
VOLTAGE TESTS			
Voltage Range	-	0 to 400VAc	
Accuracy	-	\pm 3% of Reading \pm 1ct	
CURRENT TESTS			
AC Current	-	0.00 to 400mA (240A with probe option)	
Capacitance	-	0.0 to 4000nF	
Cable Length	-	0.000 to 80.0km	
DISPLAY			
Display Size	2 x 3" (54.3 x 73mm)	2 x 3" (54.3 x 73mm)	
Digital Display	4000-count	4000-count	
Analog Bargraph	34-segments	34-segments	
Backlight	Blue Electroluminescent	Blue Electroluminescent	
GENERAL			
Power Source	6 x 1.5V AA (NEDA 15A) Capable of performing >3500 5 sec tests	6 x 1.5V AA (NEDA 15A) Capable of performing >3500 5 sec tests	
Dimensions	8.30 x 4.25 x 2.36" (211 x 108 x 60mm)		
Weight	1.81 lbs (830g)		
Index Protection	IP44	IP44	
Patent Pending	Yes	Yes	
SAFETY			
Safety Rating	EN 61010-1, 600V Cat. III, EN 61557	EN 61010-1, 600V Cat. III, EN 61557	
Double Insulation \square	Yes		
CE Mark	Yes	Yes	

Accessories



Model 1039 Field Kit, Catalog #2115.43



Field case for use with all models
Catalog #2118.98

Model 1035
Field Kit,
Catalog
#2115.42



Remote test probe
for use with Models 1035 & 1039
Catalog #2118.97



Test leads for Model 1035
Catalog #2119.41

Soft carrying case
included with
standard
megohmmeter
models
Catalog #2119.02



Hands-free
carrying case
for use with all
models
Catalog
#2118.99



Test leads for Model 1039
Catalog #2119.40

ORDERING INFORMATION

CATALOG NO.

Megohmmeter Model 1035 (Digital, with Analog Bargraph, Alarm, Backlight, 50V, 100V, 250V, 500V, 400k)	Cat. #2116.90
Megohmmeter Model 1039 (Digital, with Analog Bargraph, Alarm, Rel, Backlight, 50V, 100V, mA, nF, km)	Cat. #2116.91
All models include a soft carrying case, two color-coded leads (three for Model 1035), black test probe, two alligator clips (three for Model 1035), batteries and user manual	
Megohmmeter Field Kit Model 1035, Includes megohmmeter, field case, three color-coded leads, black test probe, three alligator clips, two grip probes, remote test probe, batteries and user manual	Cat. #2115.42
Megohmmeter Field Kit Model 1039, Includes megohmmeter, field case, two color-coded leads, black test probe, two alligator clips, two grip probes, remote test probe, AC current probe, batteries and user manual	Cat. #2115.43
Accessories (Optional)	
Remote Test Probe	Cat. #2118.97
Field Case (Waterproof)	Cat. #2118.98
Hands-Free Carrying Case	Cat. #2118.99
AC Current Probe Model MN211 (Lead - 1mA/A - 240A max)	Cat. #2115.73



Contact Us

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