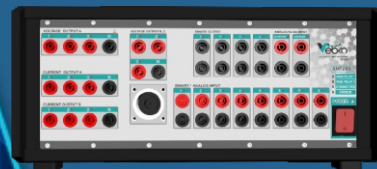




Vebko Amirkabir Co.

AMT¹⁰⁵
205



CE

www.vebko.org

Relay Tester AMT

List Of Contents

- ▶ History of Vebko Amirkabir
- ▶ Capabilities of AMT Relay Tester
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- ▶ Contact Information

History of Vebko Amirkabir

Vebko is a science-based company, established in 2014 by order of the science and technology vice-president of Iran to manufacture national relay tester device under the supervision of Amirkabir university of technology. The first industrial product of this company entered the market in 2015 and so far, more than 850 relay tester devices were sold to important industrial centers of electricity , oil and gas as well as some universities.

AMT is a universal solution to testing all types of relays and protective equipment, circuit breakers, thermal cables and sensors as well as power, current, voltage and capacitor-voltage transformers. Because of these features, this device is capable of testing different kinds of relays and protective equipment.

AMT 205 Six 32A current (64A in three-phase mode, 128A in single-phase mode), In less than 300 milliseconds, there is a three-phase current of 70A and a single-phase current of 200A.

six 300V voltage sources (1200V in single-phase mode), current and voltage combination cable, 8 analog binary inputs, 2 DC analog current and voltage inputs with high accuracy, 4 binary outputs, DC voltage Source (420 V).

AMT 105 Six 32A current (64A in three-phase mode, 128A in single-phase mode), four 150V voltage sources (450V in single-phase mode), current and voltage combination cable, 8 analog binary inputs, 2 DC analog current and voltage inputs with high accuracy, 4 binary outputs, DC voltage Source (212 V).

Certificates & Testimonials

Certified by

- ▶ Iran Power Grid Management
- ▶ Tavanir Co.
- ▶ Niroo Research institute
- ▶ IMIDRO
- ▶ Thermal Power Plants Holding
- ▶ Sanjesh Koosha

AVL List

- ▶ Khorasan Steel Complex Co.
- ▶ Khozestan Oxin Steel Co.
- ▶ Hormozgan Steel Co.
- ▶ Pars Oil and Gas Co.
- ▶ Petroleum Vendor List Iranian
- ▶ Zarand Iranian Steel Co.
- ▶ Marun Petrochemical Co.
- ▶ Pasargad Oil Co.
- ▶ National Iranian Copper Industry Co.
- ▶ Khorasan Petrochemical Co.
- ▶ Khouzestan Steel Co.
- ▶ Qom Combined Cycle Co.
- ▶ Provider Members of Niroo Research Institute
- ▶ Bandar Abbas Oil Refining Co.



Certificate related to calibration and certification of Vebko community

CE Certificate Obtained from IMQ

Relay Tester AMT

Capabilities of AMT

Software Specifications

1. Capable of testing a wide range of static, electromechanical & numerical relays
2. Capable of reading, editing & creating all XRio & Rio les
3. Capable of transient testing
4. Capable of point-to-point or end-to-end testing
5. Built-in GPS & Wi-Fi Modules
6. Automatically performing tests
7. Comprehensive report of tests
8. Capable of automatically lling out the test sheets of dierent companies
9. Compatible with Windows XP, 8, 10, 11
10. Supporting Android & iOS apps
11. Autosave, redo & undo options
12. Manual HTML le in Persian , English , Germany , Spanish
13. Using bootloader technology to update rmware
14. A host of training videos

Capable of testing power transformers

1. Winding resistance
2. No-Load current
3. Magnetic balance
4. Tap Changer continuity
5. Ratio (TTR)
6. Vector group
7. Demagnetizing
8. Leakage reactance

Capable of testing current transformers (CT)

1. Excitation (Saturation)
2. Hysteresis curve
3. Ratio using current or voltage
4. Polarity using current or voltage
5. Phase error
6. Winding resistance
7. Secondary burden

Capable of testing transducers & Meters

1. Highly precise in testing transducers & meters
2. Equipped with a pulse counter to automatically read energy

Capable of testing VT/CVT

1. Ratio & Polarity
2. Winding resistance
3. Short Circuit impedance
4. Excitation

Capable of testing CB

1. Testing the opening & closing time
2. Contact resistance
3. Minimum voltage to operate CB test

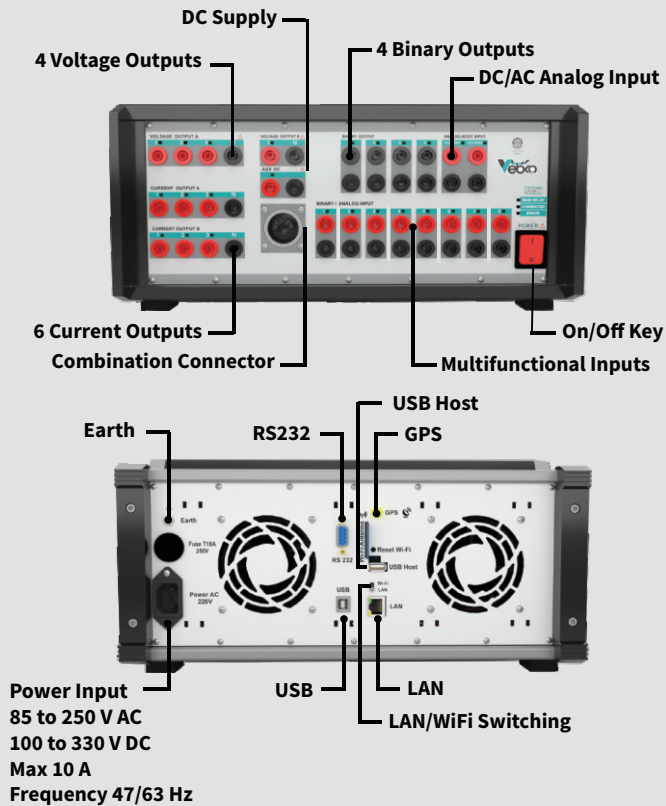
Capable of testing Reclosers

Cable for testing the following Reclosers :
Noja, Tavrda, Entec, Schneider, Eaton Cooper & ...

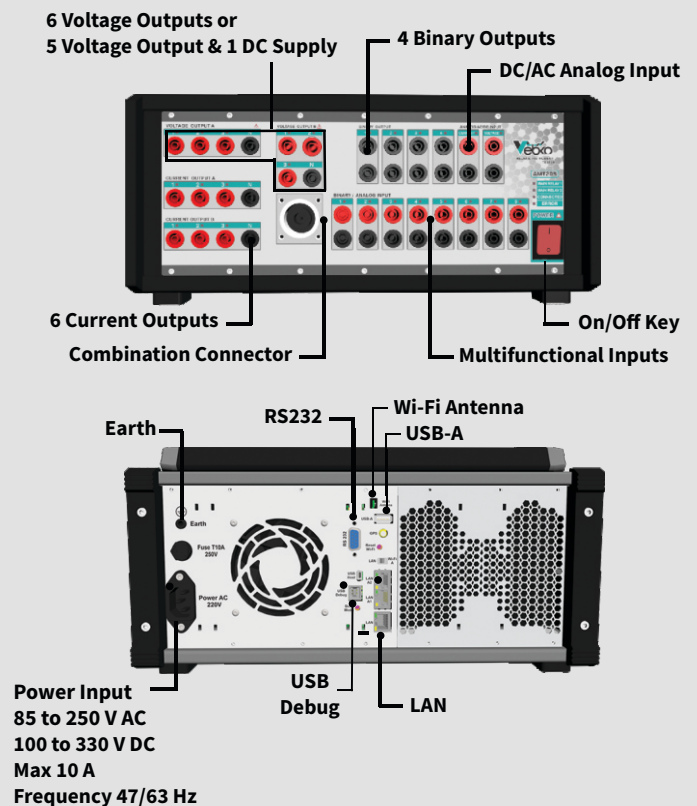
Relay Tester AMT

Tester Hardware Features

AMT105



AMT205



A summary of electrical & physical characteristics of the device

Power Supply AMT105

Power supply range	85-240 VAC or 100-330VDC
Input frequency range	47-63 Hz
Consumption	up to 2 KVA
Nominal current	3 A at 230 VAC
Connection	According to IEC60320

High Voltage, Low Current Generators AMT105 (Input Voltage $\geq 220V$)

Voltage	4 Phase (L-N)	AC: 4 X 0 ... 150 V DC: 4 X 0 ... 210 V
	Series and parallel	Yes
	Resolution	400 μV
	Accuracy	Guar.: 0.15% of rd. + 0.015% of rg. Typ.: 0.05% of rd. + 0.005% of rg.

Current

No

Power Supply AMT205

Power supply range	85-240 VAC or 100-330VDC
Input frequency range	47-63 Hz
Consumption	up to 3 KVA
Nominal current	5 A at 230 VAC
Connection	According to IEC60320

High Voltage, Low Current Generators AMT205 (Input Voltage $\geq 220V$)

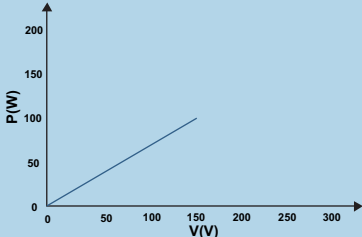
Voltage	4 Phase (L-N)	AC: 6 X 0 ... 300 V DC: 6 X 0 ... 420 V
	Series and parallel	Yes
	Resolution	800 μV
	Accuracy	Guar.: 0.15% of rd. + 0.015% of rg. Typ.: 0.05% of rd. + 0.005% of rg.

Current

Current	Normal Mode	6 Phase (L-N)	AC: 6 X 0 ... 0.25 A DC: 6 X 0 ... 0.4 A
	Internal Booster Mode time < 200ms	6 Phase (L-N)	AC: 6 X 0 ... 0.85 A DC: 6 X 0 ... 1.2 A
	Series and parallel		Yes
	Resolution		20 μA
	Accuracy		Guar.: 0.15% of rd. + 0.015% of rg. Typ.: 0.05% of rd. + 0.005% of rg.

Relay Tester AMT

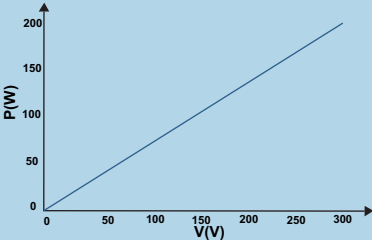
(Continue) High Voltage, Low Current Generators AMT105

Phase	Range	0° to 360°
	Resolution	1μ°
	Accuracy	Guar.: 0.1° Typ.: 0.01°
Frequency	Range	0 ... 10 kHz
	Resolution	1 μHz
	Accuracy	Guar.: 10 μHz , Typ.: 1 μHz
Power		
Harmonic Injection	Enter Harmonic	Yes
	Harmonic Order	No
		2 Free Harmonic
Recording	Sampling Rate	1.2 ms
	Variable	Currents and Voltages
Protection	Detection	Power according to power curves
		No
	Type	Test o
Connection Banana Sockets		4 mm (0.16 in) banana sockets
Connection Combination Socket		Group A
LED		Green (1 Color)

Low Voltage, High Current Generators AMT105

Current	Normal Mode	6 Phase (L-N)	AC: 6 X 0 ... 32 A DC: 6 X 0 ... 32 A
		Resolution	85 μA
		Accuracy	Guar.: 0.15% of rd. + 0.015% of rg. Typ.: 0.05% of rd. + 0.005% of rg.
	Internal Booster Mode	No	
	Maximum Compliance Voltage	12V	
	Series and parallel	Yes	
Voltage	No		
Phase	Range	0° to 360°	
	Resolution	1μ°	
	Accuracy	Guar.: 0.1° Typ.: 0.01°	
Frequency	Range	0 ... 2.5 kHz	
	Resolution	1 μHz	
	Accuracy	Guar.: 10 μHz Typ.: 1 μHz	

(Continue) High Voltage, Low Current Generators AMT205

Phase	Range	0° to 360°		
	Resolution	1μ°		
	Accuracy	Guar.: 0.1° Typ.: 0.01°		
Frequency	Range	0 ... 5 kHz		
	Resolution	1 μHz		
	Accuracy	Guar.: 10 μHz , Typ.: 1 μHz		
				
	Harmonic Injection	Enter Harmonic	Yes	2 Free Harmonic
		Harmonic Order	Yes	Maximum Order 100 for 50Hz (5KHz)
Recording	Sampling Rate	1.2 ms		
	Variable	Currents and Voltages		
Protection	Detection	Power according to power curves: Inverse		
	Type	Overcurrent: Instantaneous Test o		
Connection Banana Sockets		4 mm (0.16 in) banana sockets		
Connection Combination Socket		Group A		
LED		RGB (16 Million Color)		

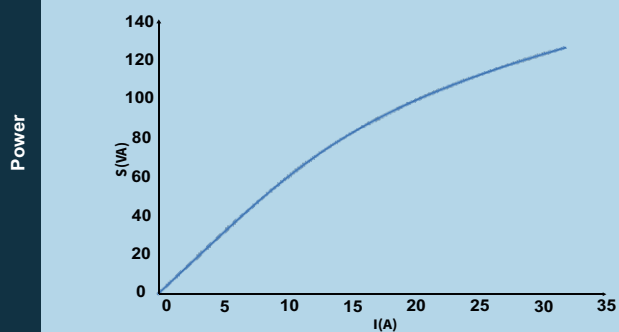
Low Voltage, High Current Generators AMT205

Current	Normal Mode	6 Phase (L-N)	AC: 6 X 0 ... 32 A DC: 6 X 0 ... 45 A
		Resolution	170 µA
		Accuracy	Guar.: 0.15% of rd. + 0.015% of rg. Typ.: 0.05% of rd. + 0.005% of rg.
	Mode amplificateur interne temps < 300 ms	6 Phase (L-N)	AC: 6 X 0 ... 67 A DC: 6 X 0 ... 95 A
		Resolution	170 µA
		Accuracy	Guar.: 0.15% of rd. + 0.015% of rg. Typ.: 0.05% of rd. + 0.005% of rg.
	Maximum Compliance Voltage		22V
Series and parallel		Yes	
	6 Phase (L-N)		AC: 6 X 0 ... 12 V DC: 6 X 0 ... 20 V
	Series and parallel		Yes
	Resolution		40 µV
	Accuracy	Guar.: 0.15% of rd. + 0.015% of rg. Typ.: 0.05% of rd. + 0.005% of rg.	
Phase	Range	0° to 360°	
	Resolution	1µ°	
	Accuracy	Guar.: 0.1° Typ.: 0.01°	
Frequency	Range	0 ... 2.5 kHz	
	Resolution	1 µHz	
	Accuracy	Guar.: 10 µHz Typ.: 1 µHz	

Relay Tester AMT

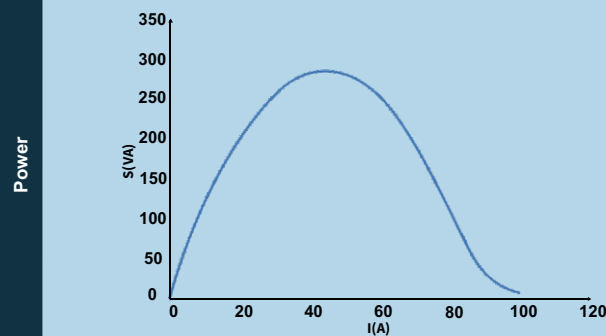
(continue) Low Voltage, High Current Generators AMT105

Recording	Sampling Rate	1.2 ms
	Variable	Currents
Protection	Detection	Maximum Neutral Current
		32A: Unlimited
		64 A: 3 s
		100 A: 300 ms
	Setting	Software Controlled: Time , Enable
	Type	Test off
Maximum Neutral Current		4 mm (0.16 in) banana sockets / 32 A continuously
Connection Banana Sockets		Group A (30 A continuously max)
LED		Green (1 Color)
Harmonic Injection	Enter Harmonic	Yes
	Harmonic Order	No
		2 Free Harmonic



(continue) Low Voltage, High Current Generators AMT205

Recording	Sampling Rate	25 μ s
	Variable	Currents & Voltages
Protection	Detection	Maximum Neutral Current
		32A: Unlimited
		64 A: 3 s
		100 A: 300 ms
	Setting	
	Type	Test off
Maximum Neutral Current		4 mm (0.16 in) banana sockets / 32 A continuously
Connection Banana Sockets		Group A (30 A continuously max)
LED		RGB (16 Million Color)
Harmonic Injection	Enter Harmonic	Yes
	Harmonic Order	Yes
		2 Free Harmonic
		Maximum Order 40 for 50Hz (2KHz)



AC/DC Analog Binary Inputs AMT105

Number		8	
Dry	Open Circuit Voltage	5 V	
	Short Circuit Voltage	Software controlled	
Wet	Range 1: 0 ... ±4.5 V(Peak)	Accuracy	0.05% of rg.
		Accuracy (Avg)	0.02% of rg.
		Resolution	35 μV
		Impedance	493.75 KΩ
	Range 1: 0 ... ±30 V(Peak)	Accuracy	0.05% of rg.
		Accuracy (Avg)	0.02% of rg.
		Resolution	250 μV
		Impedance	414.783 KΩ
	Range 1: 0 ... ±180 V(Peak)	Accuracy	0.05% of rg.
		Accuracy (Avg)	0.02% of rg.
		Resolution	1.5 mV
		Impedance	405.267 KΩ
	No		
	Recording		Sampling Rate
Protection	Detection	Over voltage	
	Setting	Software Controlled: Time , Enable	
	Type	Test o, Change to Dry	
Galvanic Isolation		8 Group (1+1+1+1+1+1+1+1)	
LED		Green (1 Color)	

AC/DC Analog Binary Inputs AMT205

Number		8	
Dry	Open Circuit Voltage	5 V	
	Short Circuit Voltage	Software controlled	
Wet	Range 1: 0 ... ±4.5 V(Peak)	Accuracy	0.05% of rg.
		Accuracy (Avg)	0.02% of rg.
		Resolution	35 μV
		Impedance	493.75 KΩ
	Range 1: 0 ... ±30 V(Peak)	Accuracy	0.05% of rg.
		Accuracy (Avg)	0.02% of rg.
		Resolution	250 μV
		Impedance	414.783 KΩ
	Range 1: 0 ... ±180 V(Peak)	Accuracy	0.05% of rg.
		Accuracy (Avg)	0.02% of rg.
		Resolution	1.5 mV
		Impedance	405.267 KΩ
	Range 1: 0 ... ±520 V(Peak)	Accuracy	0.05% of rg.
		Accuracy (Avg)	0.02% of rg.
		Resolution	4 mV
		Impedance	404.298 KΩ
Recording	Sampling Rate	12.5 μs	
Protection	Detection	Over voltage	
	Setting	Software Controlled: Time , Enable	
	Type	Test o, Change to Dry	
Galvanic Isolation		8 Group (1+1+1+1+1+1+1+1)	
LED		RGB (16 Million Color)	

Relay Tester AMT

Binary Outputs AMT105

Type	Electro mechanical relay contacts		
	-		
Control	Software controlled		
Number	4		
Maximum Voltage in open mode	Electro Mechanic	750V (Rms)	
	No		
Maximum Current	Electro Mechanic	10A (Rms)	
	No		
Break Capacity AC	Electro Mechanic	Smax	2500 VA
	No		
Break Capacity DC	Electro Mechanic	Pmax	300 W
	No		
Recording	No		
Protection	No		
Galvanic Isolation	4 Group (1+1+1+1)		
LED	Green (1 Color)		

Binary Outputs AMT205

Type	Electro mechanical relay contacts		
	Transistor		
Control	Software controlled		
Number	4		
Maximum Voltage in open mode	Electro Mechanic	750V (Rms)	
	Transistor	50 V	
Maximum Current	Electro Mechanic	10A (Rms)	
	Transistor	50 mA	
Break Capacity AC	Electro Mechanic	Smax	2500 VA
	Transistor	Smax	2.5 VA
Break Capacity DC	Electro Mechanic	Pmax	300 W
	Transistor	Pmax	2.5W
Recording	Sampling Rate	50 us	
	Resolution	2 mA	
	Accuracy	0.3 mA	
Protection	Detection	Over current	
	Setting	Software Controlled: Time , Enable	
	Type	Test o, Open Relays	
Galvanic Isolation	4 Group (1+1+1+1)		
LED	RGB (16 Million Color)		

AC/DC Current Measuring Input AMT105

Range 2: 0 ... ± 800 mA	Accuracy	0.05% of rg.
	Accuracy (Avg)	0.02% of rg.
	Resolution	6 µA
	Shunt	1Ω
Range 3: 0 ... ± 35 mA	No	
Range 1: 0 ... ± 10 A	No	
Range 4: 0 ... ± 250 µA	No	
Recording	Resolution	400 µs
Protection	Accuracy	Over current
	Setting	Software Controlled: Time , Enable
	Type	Test o
Galvanic Isolation	1 Group	
LED	Green (1 Color)	

AC/DC Current Measuring Input AMT205

Range 2: 0 ... ± 800 mA	Accuracy	0.05% of rg.
	Accuracy (Avg)	0.02% of rg.
	Resolution	6 µA
	Shunt	1Ω
Range 3: 0 ... ± 35 mA	Accuracy	0.05% of rg.
	Accuracy (Avg)	0.02% of rg.
	Resolution	0.3 µA
	Shunt	22Ω
Range 1: 0 ... ± 10 A	Accuracy	0.05% of rg.
	Accuracy (Avg)	0.02% of rg.
	Resolution	1.5mA
	Shunt	5mΩ
Range 4: 0 ... ± 82 µA	Accuracy	0.05% of rg.
	Accuracy (Avg)	0.02% of rg.
	Resolution	6 nA
	Shunt	3 KΩ
Recording	Resolution	12.5 µs
Protection	Accuracy	Over current
	Setting	Software Controlled: Time , Enable
	Type	Test o, Change to open circuit
Galvanic Isolation	1 Group	
LED	RGB (16 Million Color)	

Relay Tester AMT

AC/DC Voltage Measuring Input AMT105

Range 1: 0 ... ±400 mV(Peak)	Accuracy	0.05% of rg.
	Accuracy (Avg)	0.02% of rg.
	Resolution	3 µV
	Impedance	54.7826 KΩ

Range 2: 0 ... ±60 mV(Peak)

No

Recording Sampling Rate 400 µs

Protection	Detection	Over Voltage
	Setting	Software Controlled: Time , Enable
	Type	Test o

Galvanic Isolation 1 Group

LED Green (1 Color)

AUX. DC AMT105

Aux. DC	Any combination of 12 channels	0 ... 212 V
		0 ... 0.4 A

GPS AMT105

Internal GPS Module yes

Accuracy 8ns

Time To Lock 10s

Delay Adjustment yes

Protocol AMT105

IEC61850	Goose Message	No
	SV	No

Combination Cable AMT105

3 Voltage, 3 Current Yes

6 Current Yes

PC Connection AMT105

WiFi Yes

LED 1 Port

Programming USB Port No

General Specifications AMT105

Weight 13kg

Dimension 35cm-35cm-15cm

Operating Temperature -10 to 55° C

Storage Temperature -20 to 85° C

Humidity 70%

AC/DC Voltage Measuring Input AMT205

Range 1: 0 ... ±400 mV(Peak)	Accuracy	0.05% of rg.
	Accuracy (Avg)	0.02% of rg.
	Resolution	54.7826 KΩ
	Impedance	3 µV

Range 2: 0 ... ±120 mV(Peak)	Accuracy	0.05% of rg.
	Accuracy (Avg)	0.02% of rg.
	Resolution	1 µV
	Impedance	133.75 KΩ

Range 1: 0 ... ±50 mV(Peak)	Accuracy	0.05% of rg.
	Accuracy (Avg)	0.02% of rg.
	Resolution	54.7826 KΩ
	Impedance	500 nV

Range 2: 0 ... ±10 mV(Peak)	Accuracy	0.05% of rg.
	Accuracy (Avg)	0.02% of rg.
	Resolution	100 nV
	Impedance	133.75 KΩ

Recording Sampling Rate 12.5 µs

Protection	Detection	Over Voltage
	Setting	Software Controlled: Time , Enable
	Type	Test o, Change to Range 1

Galvanic Isolation 1 Group

LED RGB (16 Million Color)

AUX. DC AMT205

Aux. DC	Any combination of 12 channels	Max Voltage : 1200 V , 0.4 A
		Max Current : 8 V , 210 A

GPS AMT205

Internal GPS Module yes

Accuracy 8ns

Time To Lock 10s

Delay Adjustment yes

Protocol AMT205

IEC61850	Goose Message	yes
	SV	yes

Combination Cable AMT205

3 Voltage, 3 Current Yes

6 Current No

PC Connection AMT205

WiFi

LED

Programming USB Port Yes

General Specifications AMT205

Weight 14kg

Dimension 35cm-35cm-15cm

Operating Temperature -10 to 55° C

Storage Temperature -20 to 85° C

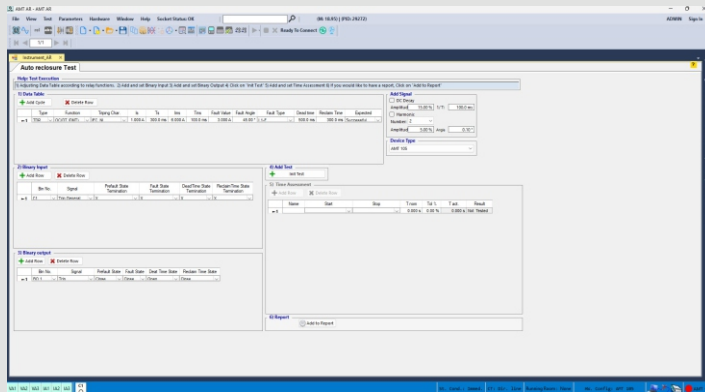
Humidity 70%

Relay Tester AMT

Brief List of Specifications

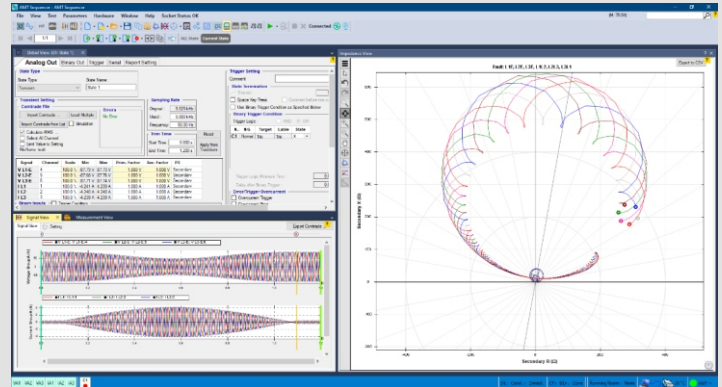
AMT Autoreclosure

Used To Test Reclosure From Entec, Tavrda ...



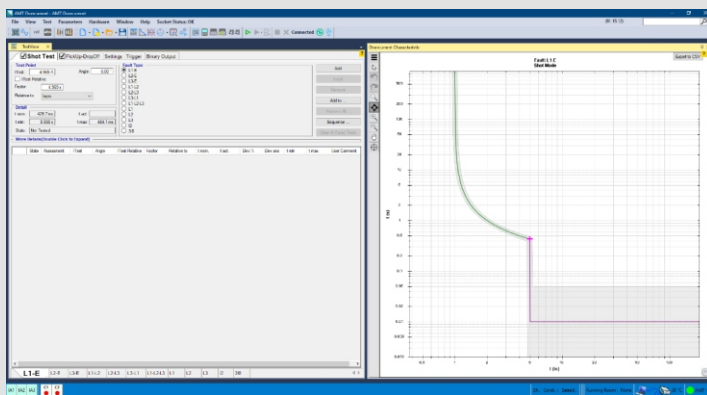
AMT Sequencer

Used to design tests that employ the normal, Quick Step Ramp, Continuous Ramp, Harmonic, Transient



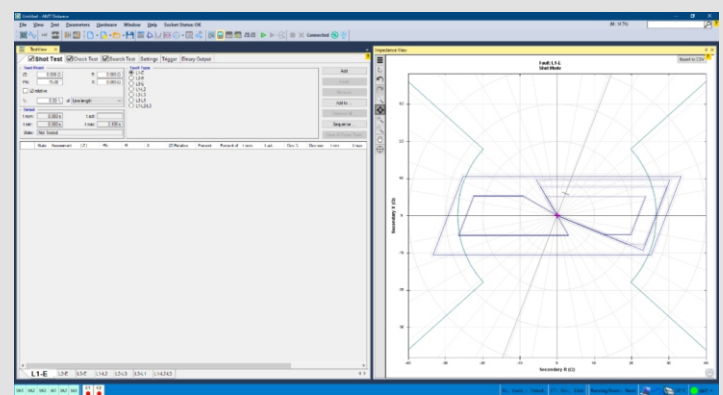
AMT Overcurrent

Used to test current functions like 51/50/67 etc.



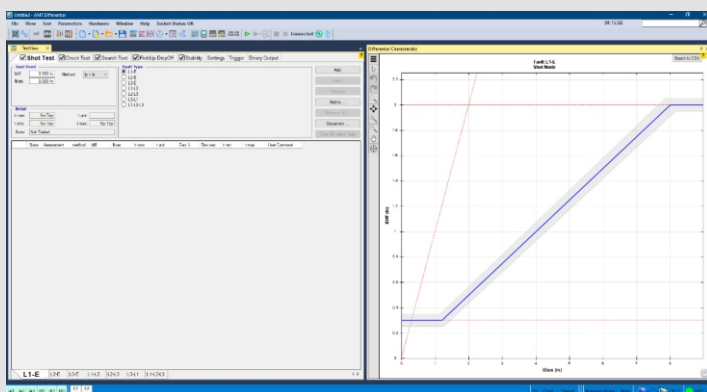
AMT Distance

Used to test Impedance functions



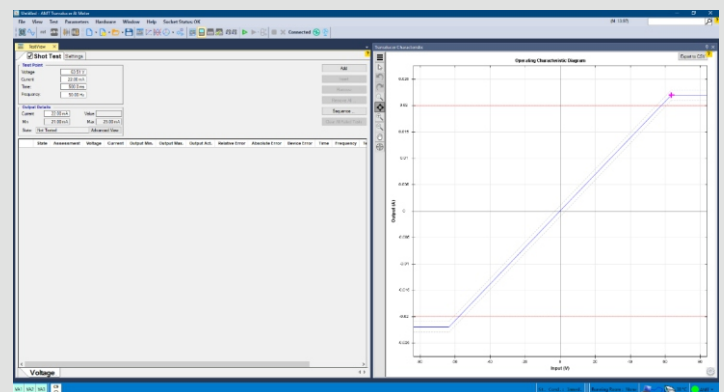
AMT Differential

Used to test differential function



Transducer & Meter

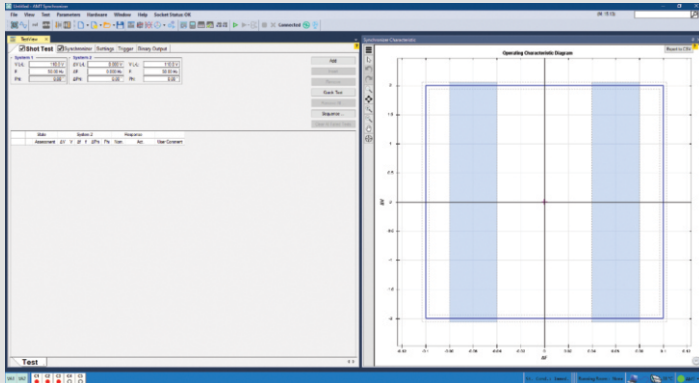
Used to test Transducer & Meter.



Relay Tester AMT

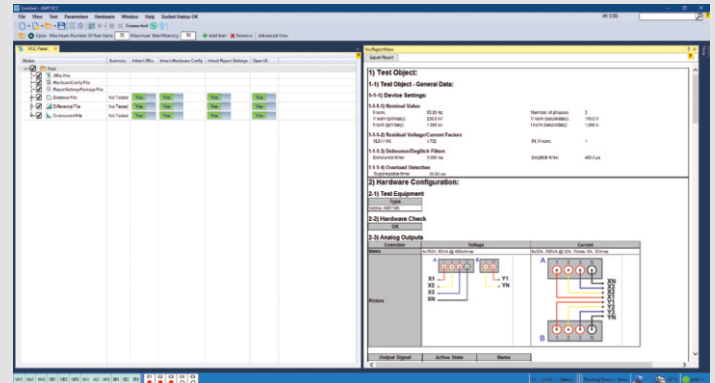
AMT Synchronizer

Used to test synchronizer relay



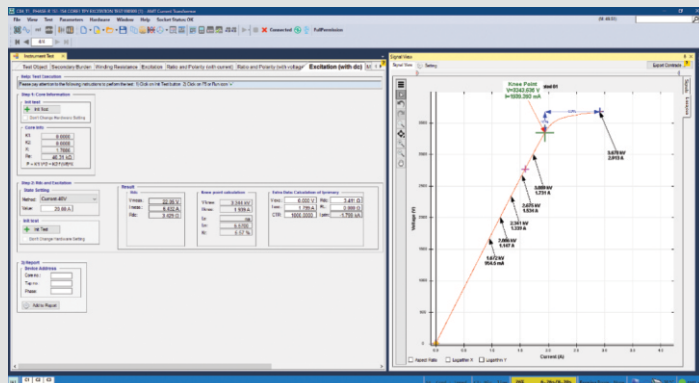
VCC

Used to successively run the tests designed for a relay



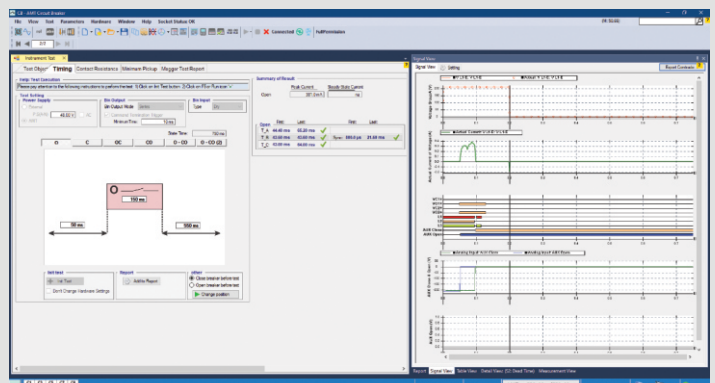
Current Transformer

Used to test various classes of CT.



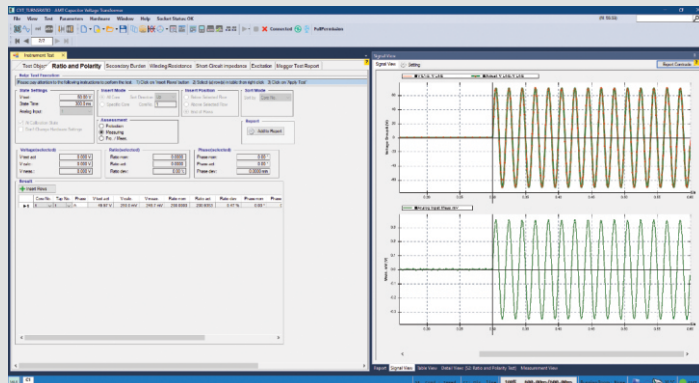
Circuit Breaker

Used to MV & HV circuit breaker tests.



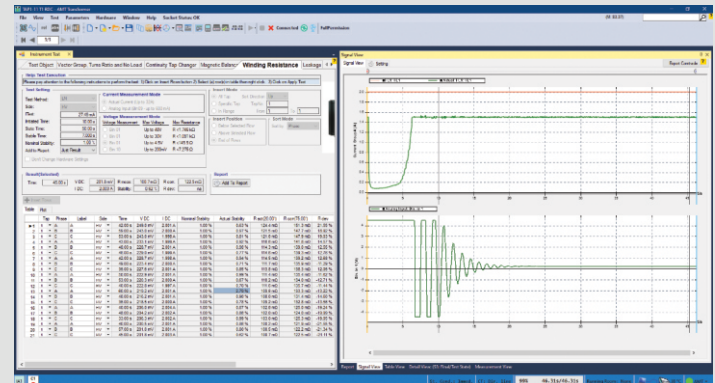
CVT

Used to test various classes of CVT



Transformer

Used to perform diifferent transformer tests

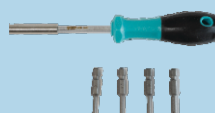


Relay Tester AMT

Vendor List

Line	Company names	National ID	Field	Domestic / Foreign	Nationality	Specifications	Product Category	Province	City	Address	Phone	Fax	Update Date	Description
656	Vebko Amirkabir remonitoring power quality	14004384990	Manufacture	Domestic	Iran	Relay protection tester AMT & Multifunction protection relay AMR	67	Qazvin	Qazvin	5th Floor, Building No 76, Parastar Boulevard, Norouzian Boulevard	+982833692361	+982833632038	2017/11/05	Self Declared

Equipment in Transportation Case

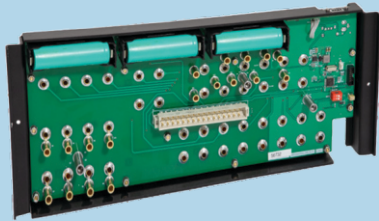
		 39 CM 19 CM 41 CM Weight : 12.5 Kg				Or  39 CM 19 CM 41 CM Weight : 12.5 Kg									
Tester Transportation Case		AMT205 Relay Tester				AMT105 Relay Tester									
AMT1001		Qty : 1		AMT1050		Qty : 1		AMT1003		Qty : 1					
															
Transformer Test Clamp	Clamp cover	Combination Cable	Ethernet Cable	Power Cable	Crocodile Clips to Contacting Pins or Screw Bolts	Transformer Test Cable	Shoulder Bag								
AMT1016	8	AMT1028	8	AMT1004	1	AMT1007	1	AMT1006	1	AMT1012	4	AMT1015	3	AMT1002	1
															
Capacitor Box		Flexible test load adaptive with retractable sleeves 4 mm safetyplugs 30 cm long , 32 A	Programming USB cable	Flexible test load adaptive with retractable sleeves 4 mm safetyplugs 10 cm long , 320 A		Cable ties (Velcro fastener) Black , 150 mm long	Load Cable								
AMT1019		1	AMT1011	4	AMT1026	1	AMT1014	4	AMT1026	1	AMT1013	5	AMT1005	5	
															
Serial Dongle	Flexible terminal adapters 2.5 cm , 4 mm , 32 A		Cable lug Adapter 4 mm		Ground Cable	Optical sensor for testing meter	GPS Antenna								
AMT1020		1	AMT1009		12	AMT1010	12	AMT1008	1	AMT1018	1	AMT1017		1	
															
Backpack Trans		Luggage Cover		Screwdriver		Bag A		Trans Cable Holder							
AMT1023		1	AMT1024		1	AMT1022		1	AMT1025		1	AMT1021		16	

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Accessories

(*) : Needs Base Module



Base Module

Bass Module

AMT1030

(*)



CB Test Module

AMT1031

(*)



CT And CVT Test Module

AMT1033

(*)



Transformer Test Module

AMT1032

(*)



Relays Tester And High Voltage Module

AMT1039

(*)



Calibration Module

AMT1035



10 Milli OHM Shunt Module

AMT 1038



High Voltage Linear Regulator Module

AMT 1046



Insulation Resistance Measuring Module

AMT 1040



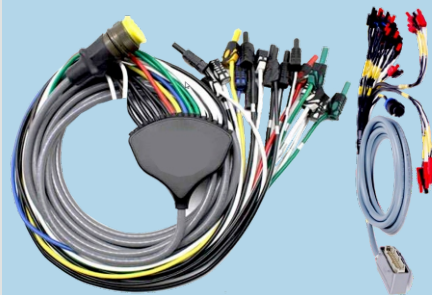
Arc-Flash Module

AMT 1051



Electronic Relays Test Module

AMT1034



Recloser Cable

AMT1053



Current Clamp

AMT1054

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**OUR BUSINESS RELATIONSHIP WITH
Raya Farhour Anoush (RFACo)**

**INTERNATIONAL REPRESENTATIVE OF
VEBKO AMIR KABIR COMPANY**



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FOR THE EXPORT OF RELAY TESTER & EQUIPMENT

Raya Farhour Anoush is the International Representative of Vebko Amir Kabir Company For Exporting Relay Tester & Equipment with more than 21 active representatives worldwide: Brazil, India, Pakistan, England, Saudi Arabia, Australia, Croatia, Morocco, Indonesia, Iran, Iraq, Nigeria, Philippines, South Africa, Thailand, Turkey, Malaysia, United Arab Emirates, Bahrain, Oman, Uruguay



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