

Other instruments / adapters / accessories

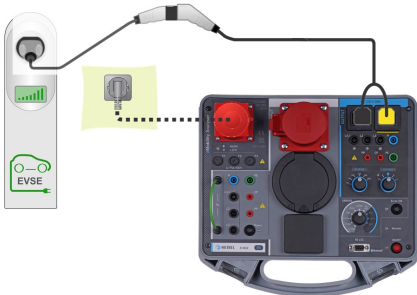
A 1632 eMobility Analyser



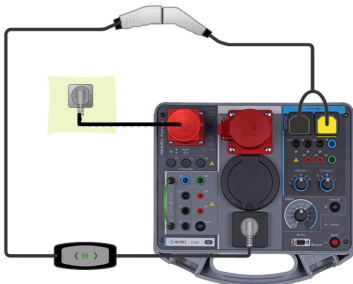
The A 1632 eMobility Analyser is a special accessory designed for diagnostic testing of Electric Vehicle Supply Equipment (EVSE) together with supported METREL testers. It supports verification of electrical safety and functional testing of Type 1 and/or Type 2 EVSE as well as testing of Mode 2 and Mode 3 electrical vehicle (EV) charging cables and communication monitoring between the charging station and the EV (simulated electric vehicle) during charging. It is also compatible with MESM software for station and cable-based professional reports.

APPLICATION

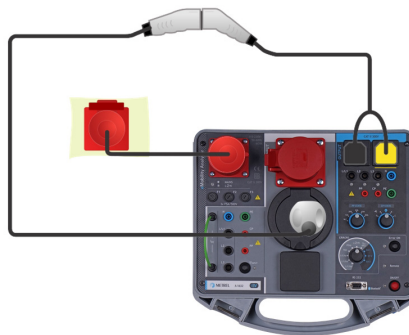
- EVSE functional and diagnostic testing according to EN 61851-1 and electrical safety testing according to EN 60364-6.



- Simulation of faults on mains for verification of Mode 2 electrical vehicle (EV) charging cable safety features.



- Electrical safety testing of 1-phase and 3-phase Mode 2 EV cables
- Electrical safety testing of Mode 3 EV cables.



COMPLETE EVSE TESTING

The combination of A 1632 eMobility Analyser or A 1532 EVSE adapter with Metrel's installation testers the MI 3155 EurotestXD or MI 3152 EurotestXC offers a complete solution for testing in circuits with a **EV RCD or EV RCM 6 mA DC trip-out protection**. It is possible to perform a **complete RCD test sequence including the 6 mA DC ramp test and loop impedance (Z_s rcd) measurement without tripping 6 mA DC EV RCD or EV RCM**. This makes Metrel compliant with standards **IEC 62752** (when Mode 2 EV cables are used) and **EN 62955** (when Mode 3 cables are used).

Diagnostic Test (EVSE)			
CP+	5.9 V	U1N	229 V
CP-	-11.6 V	U2N	13 V
D	21.3 %	U3N	12 V
Freq	999.9 Hz		
Ievse	12.8 A		
State	C2		
Test	EV simulator		
Simulator_CP	C		
Simulator_PP	32 A		
Duration	Off		
Control	Instrument		

TECHNICAL SPECIFICATION

Measurement functions		Measuring range	Resolution	Accuracy
Nominal system voltage range		100 V AC ... 440 V AC	1 V	±2 % of reading + 2 dig)
Nominal frequency range		0 Hz, 14 Hz ... 500 Hz		
Phase rotation		1.2.3 or 3.2.1		
Voltage UCP+, UCP-		-19.99 V ... 19.99 V	1 V	±(2 % of reading + 2 dig)
Frequency		500 ... 1500 Hz	0.1 Hz	±1 % of reading
Duty cycle		0.1 ... 99.9 %	0.1 %	±10 dig
I _{evse}		0.0 ... 99.9 A	0.1 A	Calculated value
Toff		0 ... 399 ms	1 ms	±(1 % of reading + 5 dig)
Simulation functions	State	Misc.		
PP simulation	n.c	> 300 kΩ		
	13 A	1.5 kΩ ± 1.5 %		
	20 A	680 Ω ± 1.5 %		
	32 A	220 Ω ± 1.5 %		
	63 A	100 Ω ± 1.5 %		
	80 A	56 Ω ± 1.5 %		
CP simulation	A	> 300 kΩ		
	B	2.74 kΩ ± 1.5 %		
	C	882 Ω ± 1.5 %		
	D	246 Ω ± 1.5 %		
Diag. functions	Error	Misc.		
System state	A1	no EV connected		
	A2	no EV connected / PWM		
	B1	EV connected		
	B2	EV connected / PWM		
	C1	EV charged		
	C2	EV charged / PWM		
	D1	EV charged and ventilation on		
	D2	EV charged and ventilation on / PWM		
	E	Error		
	F	Failure		
	Invalid	CP signal can't be classified		
Error functions	State	Misc.		
Uinput fault	L/L1op	L/L1 conductor open		
	L/L2op	L/L2 conductor open		
	L/L3op	L/L3 conductor open		
	Nop	N conductor open		
	PEop	PE conductor open		
	L<>PE	L/L1 and PE conductors crossed		
	Uext (PE)	External voltage on PE (on input side)		
	Uoutput fault	Diode short/Error 1	CP diode shorted	
CP short/Error 2		CP-PE shorted		
PE open/Error 3		PE opened		
General				
Battery power supply		7.2 V DC (4.4 Ah Li-ion)		
Battery charging time		typically 4 h (deep discharge)		
Mains power supply		115 V ~ ± 10 % 230 V ~ ± 10 % 230 V / 400 V 3~ ± 10 % 50 Hz - 60 Hz, 60 VA		
Protection category		300 V CAT II		
Measuring category		300 V CAT II		
Degree of protection		IP 65 (case closed) IP 40 (case open) IP 20 (mains test socket)		
Dimensions (W x H x D)		36 cm x 16 cm x 33 cm		
Working temperature range		-10 °C ... 50 °C		
Maximum relative humidity		90 %RH (0 °C ... 40 °C), non-condensing		
Working nominal altitude		up to 3000 m		
Bluetooth module		Class 2		

METREL D.D.

Measuring and Regulation Equipment Manufacturer
Ljubljanska 77, SI-1354 Horjul, Slovenia
T +386 (0)1 75 58 200, F +386 (0)1 75 49 226
metrel@metrel.si, www.metrel.si

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.
Subject to technical change without notice.

KEY FEATURES

- Functional testing of EVSE via simulation of electrical vehicle's CP and PP circuits.
- Diagnostic testing of EVSE via simulation of errors on CP circuit.
- Electrical safety testing of EVSE.
- Functional testing of Mode 2 EV cables via simulation of electrical vehicle's CP and PP circuits.
- Diagnostic testing of Mode 2 EV cables via simulation of errors on CP circuit.
- Simulation of faults on mains for verification of Mode 2 EV charging cable safety features.
- Electrical safety testing of Mode 2 and Mode 3 EV cables.
- Accessible inputs/outputs for connection of safety testers.
- 1-phase and 3-phase Mode 2 cable connections.
- Integrated 4400 mAh Li-Ion battery.
- Bluetooth communication with Metrel safety testers.

SUPPORTED INSTRUMENTS

- MI 3152 EurotestXC
- MI 3152H EurotestXC 2.5kV
- MI 3155 EurotestXD
- MI 3325 MultiServerXD

STANDARDS

Electromagnetic compatibility

- EN 61326

Safety

- EN 61010-1
- EN 61010-2-030
- EN 61010-031

Functionality

- EN 61851-1
- EN 61557 series
- EN 60364-6

Li - ion battery pack

- IEC 62133

ORDERING INFORMATION



Standard set A 1632

- A 1632 eMobility Analyser
- Type 2 Male plug adapter with long CP pin (2 x Metrel connector), 2 m
- 1-phase EU - 3 phase CEE (16 A) mains cable, 2 m
- 2 mm banana to 4 mm cascade banana adapter, 1 m
- Protective bag for accessories (mounted on the case)
- Metrel eMobility App for Android*
- Instruction manual
- Calibration certificate

*The eMobility App can be downloaded free of charge from Android Market.

Note: The Android app eMobility allows only performing functional EVSE tests.

Service van EURO-INDEX

EURO-INDEX verleent service op alle meetinstrumenten uit haar leveringspakket en biedt de faciliteiten, kennis en hoog gekwalificeerd personeel voor (preventief) onderhoud, reparatie en kalibratie van uw meetinstrumenten.

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EURO-INDEX is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum.

Dit betekent dat uw instrumenten worden behandeld door goed opgeleid en kundig personeel, dat beschikt over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen gebruikt en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

Service- en kalibratielaboratorium

EURO-INDEX beschikt over een bijzonder modern service- en kalibratielaboratorium met RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor verschillende grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105.



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KWS is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie. Veel zaken worden voor u geregeld, zodat u zonder zorgen gebruik kunt maken van uw meetinstrumenten. De kosten zijn laag en voorspelbaar.

Digitale toegang tot uw kalibratiecertificaten met Mijn KWS

Via het Mijn KWS webportal heeft u altijd en overal toegang tot uw kalibratiecertificaten en gerelateerde documenten.

Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Deskundig advies
- Instrumenten worden geleverd met accessoirepakket en herleidbaar kalibratiecertificaat

EURO-INDEX Academy

- Producttrainingen (individueel en klassikaal)
- Seminars
- Demonstratie- en instructievideo's

Bekijk de video op ons YouTube kanaal en ontdek alles over KWS



Servicebalie



Kalibratie rookgasanalyse



Seminars en workshops



Kalibratie thermografie

Wijzigingen voorbehouden EURO-INDEX® VL 18001

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BELGIË
Leuvensesteenweg 607
1930 Zaventem
T: 02 - 757 92 44
F: 02 - 757 92 64
info@euro-index.be
www.euro-index.be

NEDERLAND
Rivium 2e straat 12
2909 LG Capelle a/d IJssel
T: +31 - (0)10 - 2 888 000
F: +31 - (0)10 - 2 888 010
verkoop@euro-index.nl
www.euro-index.nl

