EVX100
EV charger interface for the MFT-X1

- **Fully integrated to the current MFT-X1**
- **Simple operation**
- **Integrated with MFT-X1 control interface**
- **Automated EV charger resetting**
- **Full EV control by the MFT-X1**
- **CP code reporting**
- **IP54 compliance**
- **CAT II 250 V rating**
- **Carry case included**

DESCRIPTION

The EVX100 is designed as a fully integrated accessory to the MFT-X1 offering an automated test interface for testing singe and three-phase Mode 3 AC electric vehicle charging stations (Mode 3 EVSE chargers).

The EVX100 in combination with the MFT-X1 offers the ideal test solution for installation verification and servicing of EV chargers, removing the need for the traditional remotely located manual adaptor/control box.

When the EVX is connected to the MFT-X1 the instrument recognises the EVX100 and the MFT automatically offers the operator the necessary EV charger testing options with no need to touch the EVX interface.

The EVX100 offers a range of EV charger testing options, all controlled through the MFT-X1 test interface, including single and 3 phase. There is no need for manual controls or additional test leads.

PP and CP states are controlled automatically, simplifying the operation of the testing procedures. The MFT-X1 can identify all four operational CP states, A, B, C and D as well as the intermediate state A1, A2, B1, B2 etc. This provides enhanced operational awareness and diagnostic feedback during error conditions.

In addition, the EVX will also identify PE issues through the MFT-X1 rather than the manual adaptor touch buttons. This is operated via the dual (ambidextrous) test buttons on the MFT and will inhibit or just warn the user of any issues depend on the MFT configuration.

The PE warning function now works via the MFT-X1 when touching the test buttons.

The EVX100 is supplied with the Type 2 charging plug.

Testing of IEC61851 and IEC62955 protective devices is automated through the EVX.

When an RCD trips during an RCD or RDC test the EVX automatically generates an EV charger reset. As soon as power is restored to the charger the EVX resets the charger, removing the need for user to select C-B-A-B-C on the CP knob of a manual adaptor.

The EVX will operate with all existing MFT-X1 instruments with the latest free firmware update from the Megger website.

The EVX100 is powered by a lithium-Ion battery with USB type C charging port.

Achieving IP54, the adaptor meets the same IP standard as its MFT host and enables its use in inclement weather.

Leveraging all the test capabilities of the MFT-X1 the combination of EVX100 and MFT-X1 offers an exceptionally simple and flexible solution to electricians working on both the incomer and load side of the EV charging station.

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FEATURES

	EVX100 interface	Optional accessory
EVX100 interface	✓	
Test lead	✓	
Type 2 plug	✓	
Type 1 plug		✓
CAT II 250V compliance	✓	
IP rating IP54	✓	
Rechargeable Li-ION battery	✓	
Type C charging lead	✓	
Carry case	✓	
Quick start guide	✓	
Full user guide	✓	Available online
Safety warnings	✓	

SPECIFICATIONS

Power supply:	
Internal battery:	Li-ion 3180 mAH
Recharging:	Type C USB (required supply is 5 V, 1 A maximum)
Charging status:	LED
Input voltage	
230 V AC nominal	max 253 V AC
400 V AC nominal	max 440 V AC
Input frequency:	50/60 Hz
CP state verification:	A1, A2, B1, B2, C1, C2, E, F

For measurement specification refer to the MFT-X1 user guide. See megger.com/mft-x1

Connection options:	Fixed type 2: IEC 62196-1
Safety:	IEC61010-1:2010 61010-031:2015, CAT II 250 V
Temperature range:	
Working range:	-10 °C to +55 °C
Storage range:	-25 °C to +70 °C
Humidity range:	90% R.H at +40 °C max
Ingress protection:	IEC 660529: IP 54: Equipment is protected against ingress of dust and water splashes and is suitable for indoor and outdoor use.
Vibration:	MIL-PRF-28800F: Class 2
Maximum operating altitude:	2000 m
Pollution degree:	2
Mechanical	
EVX case dimensions:	133.5 x 115 x 56 mm (5.2 x 4.5 x 2.2 inches) excl. cable.
Unpackaged weight:	976 g
Packaged dimensions:	350 x 280 x 75 mm (13.8 x 11.02 x 2.96 inches)
Packaged weight:	1580 g
Cable length:	2 m

ORDERING INFORMATION

Description	Part number
EVX100	1016-183
Included accessories	
Carry case	2017-285
User guide	2017-287
Optional accessories	
EVX100 carry case	2017-285
Type 1 to type 2 adaptor	1014-901

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