



EV monitoring cable

A 1631

Quick user guide

Version 1.1.1, Code No. 20 753 068

Distributor:

Manufacturer:

METREL d.d.
Ljubljanska cesta 77
1354 Horjul
Slovenia
web site: <http://www.metrel.si>
e-mail: metrel@metrel.si



Mark on your equipment certifies that it meets requirements of all subjected EU regulations.

© 2019 METREL

The trade names Metrel[®], Smartec[®], Eurotest[®], Auto Sequence[®] are trademarks registered in Europe and other countries.

No part of this publication may be reproduced or utilized in any form or by any means without permission in writing from METREL.

Table of contents

| | | |
|----------|---|----------|
| 1 | INTRODUCTION | 4 |
| 1.1 | Monitoring with the use of A 1631 EV Monitoring cable | 4 |
| 1.1.1 | Monitoring of the charging process..... | 5 |

1 Introduction

The A 1631 EV monitoring cable is a special accessory designed for CP signal, current and voltage monitoring during Electric Vehicle (EV) charging process in conjunction with supported Metrel testers and adapters. It is equipped with a Type 2 female plug connector to connect to an EV and a Type 2 male socket outlet for connecting to Electrical Vehicle Supply Equipment (EVSE).

1.1 Monitoring with the use of A 1631 EV Monitoring cable

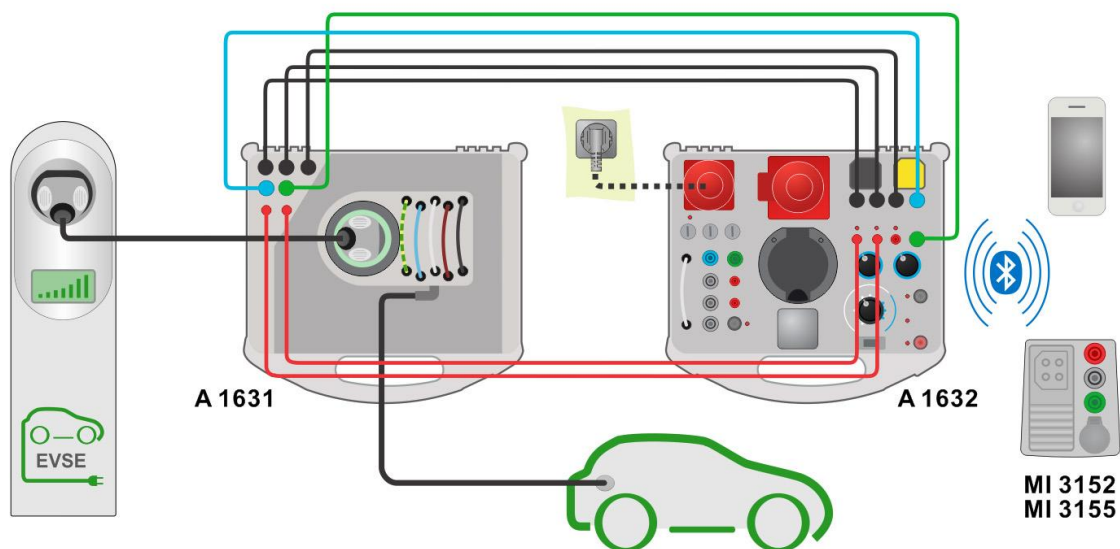


Figure 1.1: 3-Basic monitoring configuration

1.1.1 Monitoring of the charging process

The monitoring of the CP communication and performing electrical safety measurements at the time of charging an EV is in some literature also referred to as the Man-in-the-Middle verification. With the help of an additional adapter, the A 1631 EV Monitoring Cable it is possible to perform verification of the CP low level communication signal, current and other electrical testing, all during the actual charging procedure. The A 1631 is designed in such a way that it only listens to the CP communication without actually influencing it.

Follow the procedure shown in Figure 1.2 to monitor the CP communication between EV and EVSE.

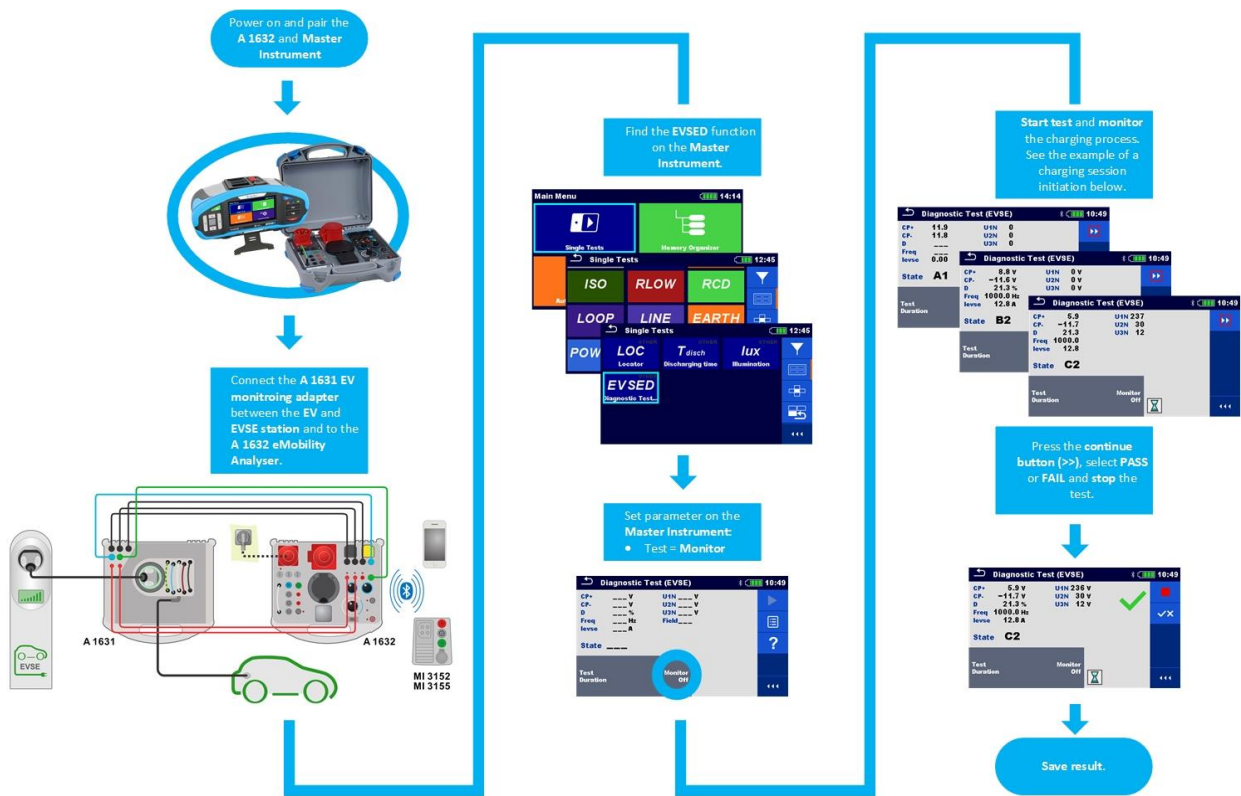


Figure 1.2: CP communication monitoring during EV charging