



# MI 3325 MultiServicerXD

FW version  
1.2.31.c9711c6c

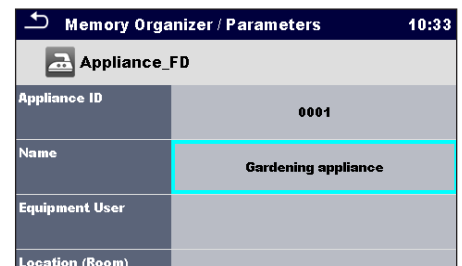
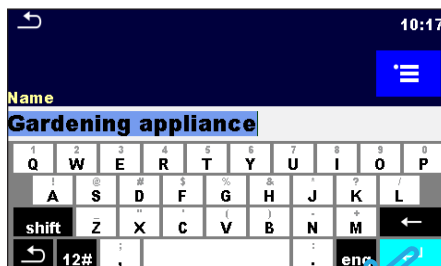
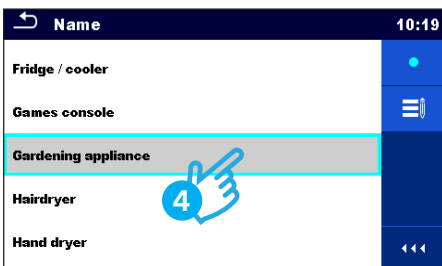
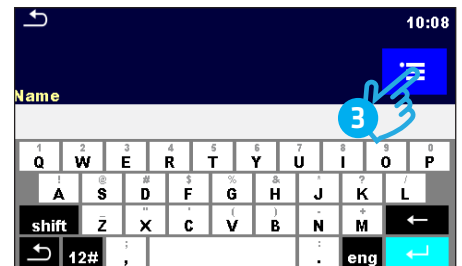
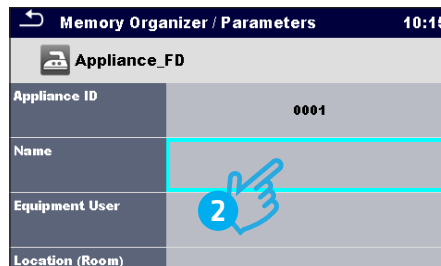
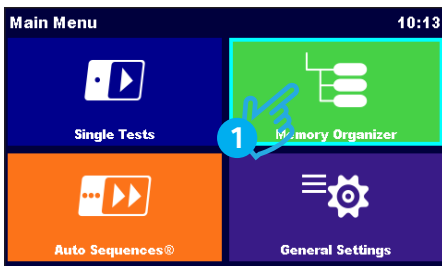
# MI 3325 MultiServicerXD

## Custom lists (memory organizer)

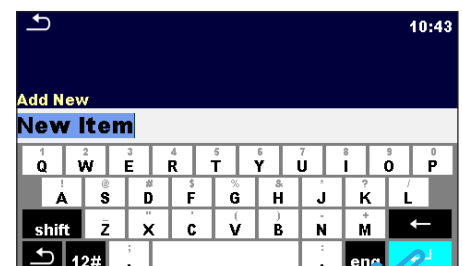
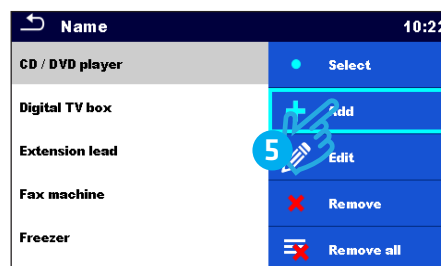
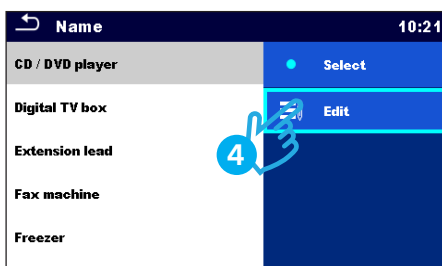
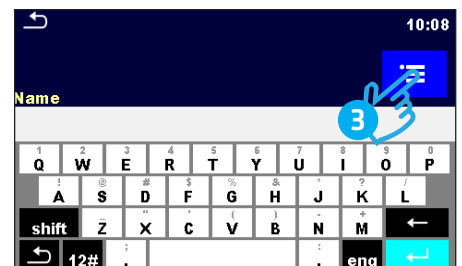
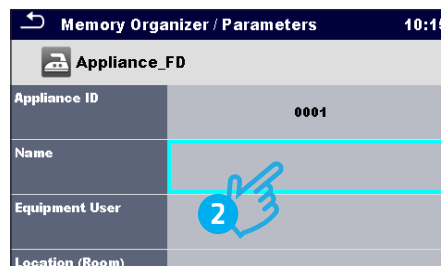
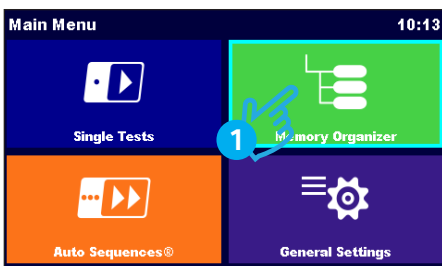
The newest addition to the user experience are custom (user-created) lists, which were developed based on the feedback from end users who felt that such a feature would save them time. This new functionality can be found in the Memory organizer and enables the user to pre-prepare lists with most used names. Alternatively, the names can be added (and saved) anytime at the testing location and can then be selected from the dropdown menu.

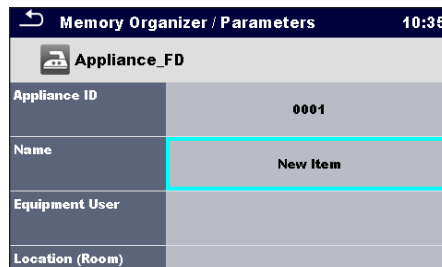
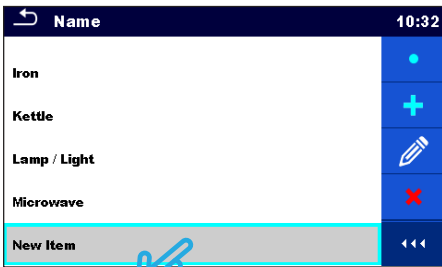
USER LISTS ARE AVAILABLE FOR THE FOLLOWING PARAMETERS:

- Appliance ID.
- Appliance\_name.
- Location of appliance.
- Inventory no. of appliance.
- Appliance group.
- Producer of appliance.
- Machine ID.
- Name of project.
- Name of location.
- Name of client.
- Switchgear ID.
- EVSE ID.
- Group machine switchgear.
- Test standard for portable appliances.



Step-by-step procedure of selecting an item from a pre-prepared list.





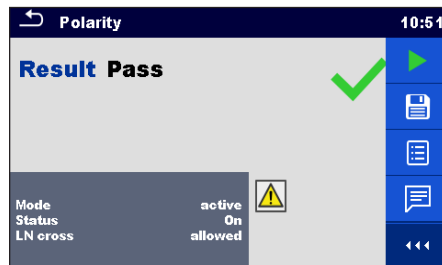
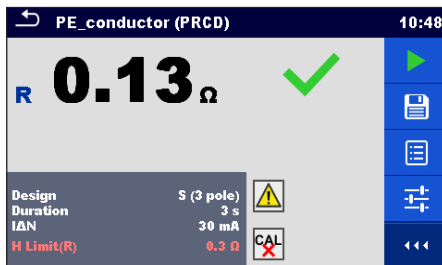
Step-by-step procedure of adding a new item to a list.

## Testing of 1-phase RCDs

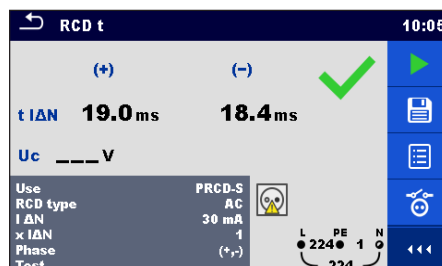
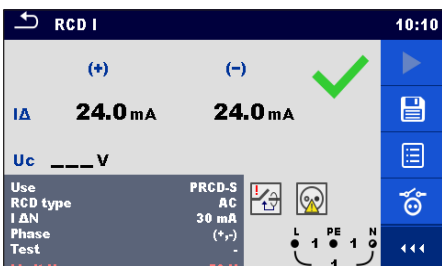
The MI 3325 MultiServicerXD now supports testing of portable residual current devices, or PRCDs for short, in accordance with the standard EN 50699.

### SUPPORTED PRCD TESTS:

- PE conductor test
- Polarity test
- Trip out time
- Trip out current



The PE conductor test and polarity test.



The measurements of trip out time and trip out current.

# MI 3325 MultiServicerXD

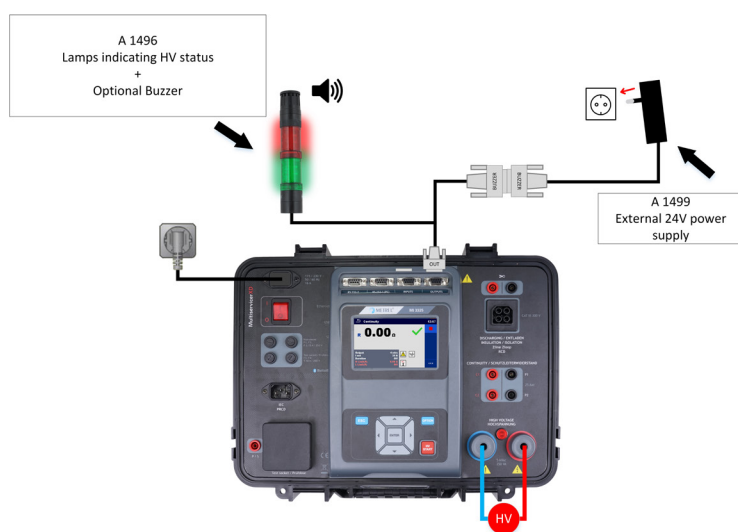
## Signal lights

Some tests and measurements, particularly those entailing the use of high voltage, require (as per standard EN 50191) the use of signal lights for warning the nearby personnel that the test is underway, and in which phase it is. The warning lights must be installed in such a manner to be visible to all outside the test area. Support for such warning lights is of course another latest MI 3325 MultiServicerXD's feature.

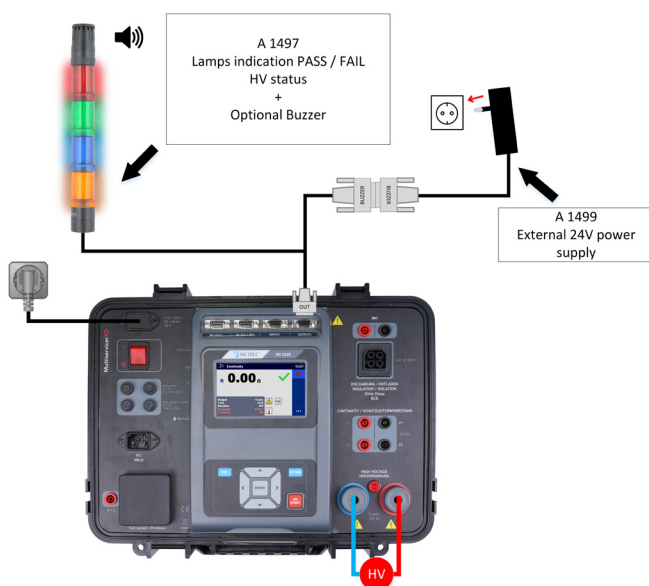
### EXPLANATION OF SIGNAL LIGHT'S COLOUR WARNINGS (BOTH A 1496 AND A 1497):

- Green: the test instrument is ready for operation. The instrument is turned on and the HV function is selected, but the test voltage supply circuit is still switched off and secured with a password.
- Red: the high voltage dielectric test was activated, and the measurement is currently underway (voltage is applied to test terminals.)

(It is also possible to program the buzzer to buzz when the instrument is ready for operation or is already in operation.)



Signal tower with 2 LED lamps & buzzer (A 1496 Warning lamp / 2-LED signal tower HV) can be used for indication of the HV warning status.



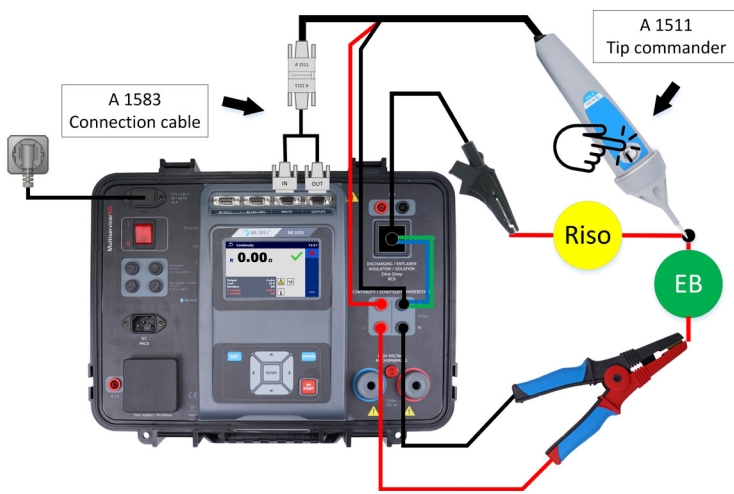
Signal tower with 4 LED lamps & buzzer (A 1497 Warning lamp / 4 LEDs signal tower with buzzer) can be used for indication of both the HV warning and PASS/FAIL status (for measurements with set limits).

# Remote execution of single tests

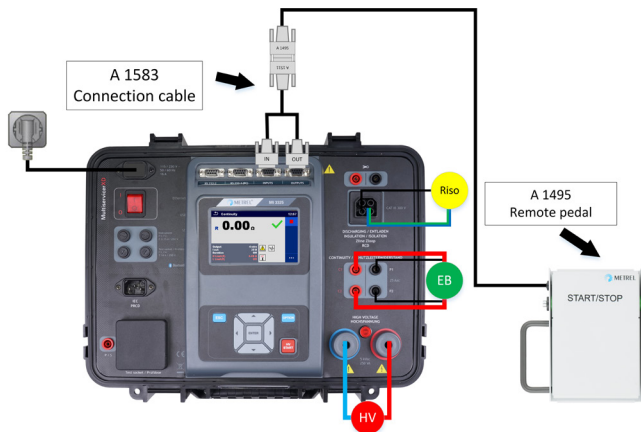
The MI 3325 MultiServicerXD now supports remote execution of single tests using the A 1511 Tip commander and A 1495 Remote pedal accessories. Previously, both accessories could only be used for execution of AUTO SEQUENCE® automatic test sequences.

The A 1511 Tip commander can now be used for remote execution of the 4-wire continuity test and insulation resistance measurements.

The A 1495 Remote pedal can now be used for remote execution of all currently supported single tests.



Connecting the A 1511 Tip commander to MI 3325 MultiServicerXD.

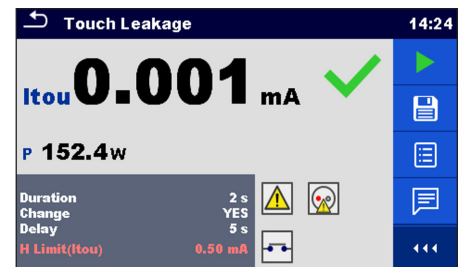
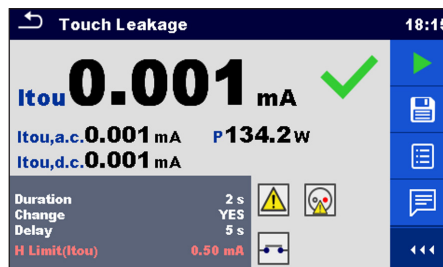
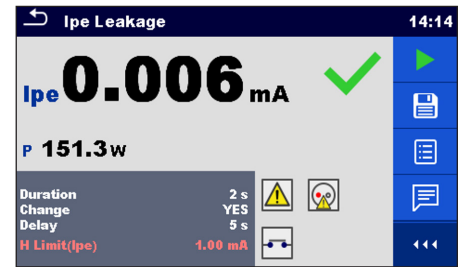
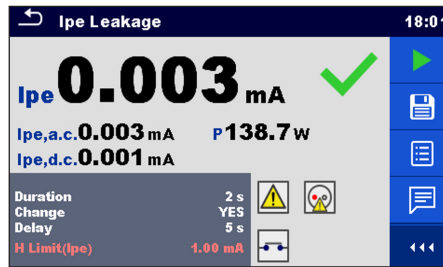


Connecting the A 1495 Remote pedal to MI 3325 MultiServicerXD.

# MI 3325 MultiServicerXD

## Modified IPE and Itou leakage measurements

The MI 3325 MultiServicerXD's functions IPE and Itou now also provide information about AC and DC leakage currents.

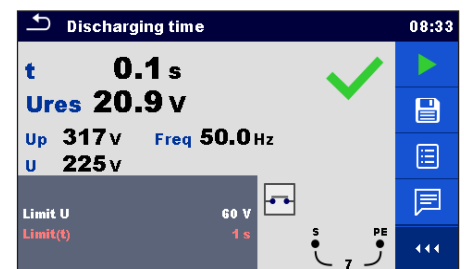
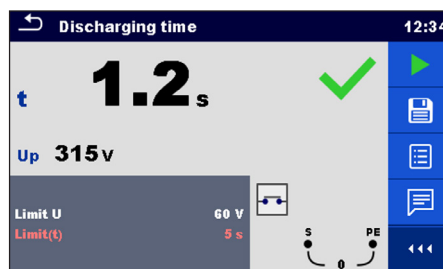


New screens (after firmware upgrade) with information about leakage currents.

Previous screens with no information about leakage currents.

## Discharge time measuring function (upgraded)

The new firmware now enables the measurement of residual voltage (in accordance with IEC 61557-14) as a part of discharging time measurement.



Previous screen of the discharge time measurement function with no information about residual voltage (Ures).

New screen of the discharge time measurement function with information about residual voltage (Ures).

# Testing of 1,5 kV photovoltaic switchgears

The 1,5 kV photovoltaic installations are fast becoming the new norm and require more robust electrical safety examinations than older 1 kV ones. Consequently, the latest iteration of the standard for testing of low-voltage switchgear and controlgear assemblies, the EN IEC 61439-1:2021, prescribes testing of 1,5 kV main circuits with a 2,7 kV AC RMS voltage (look at the table down below). The new firmware now enables the MI 3325 MultiServicerXD to do just that (high voltage testing with 2,7 kV AC voltage at 100 mA test current).

**Table 8 – Power-frequency withstand voltage for main circuits (10.9.2)**

Rated insulation voltage $U_i$ (line to line a.c. or d.c.) V	Dielectric test voltage a.c. r.m.s. V	Dielectric test voltage <sup>b</sup> d.c. V
$U_i \leq 60$	1 000	1 415
$60 < U_i \leq 300$	1 500	2 120
$300 < U_i \leq 690$	1 890	2 670
$690 < U_i \leq 800$	2 000	2 830
$800 < U_i \leq 1 000$	2 200	3 110
$1 000 < U_i \leq 1 500^a$	-	3 820

<sup>a</sup> For d.c. only.  
<sup>b</sup> Test voltages based on 6.1.3.4.1, fifth paragraph, of IEC 60664-1.

The old Table 8 in the EN IEC 61439-1 ED2: 2011 standard.

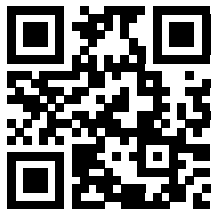
**Table 8 – Power-frequency withstand voltage for main circuits (10.9.2)**

Rated insulation voltage, $U_i$ (line to line AC or DC) V	Dielectric test voltage AC RMS V	Dielectric test voltage DC V
$U_i \leq 60$	1000	1415
$60 < U_i \leq 300$	1500	2120
$300 < U_i \leq 690$	1890	2670
$690 < U_i \leq 800$	2000	2830
$800 < U_i \leq 1000$	2200	3110
$1000 < U_i \leq 1500^a$	2700	3820

<sup>a</sup> For DC only.

The new Table 8 in the EN IEC 61439-1 ED3: 2021 standard with the addition of 2,7 kV test voltage.

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

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