

Mains Distribution Assemblies with Test Sockets

To enhance on-site safety, test sockets can be incorporated in the incoming and outgoing switchgear sections of Mains Distribution Assemblies (MDAs), enabling a range of tests to be carried out “live” with a very high degree of safety. The fitting of test sockets eliminates the need to remove shield plates or terminal covers for routine testing and allows essential testing of RCDs and the measurement of earth fault loop impedance, etc., to be carried out safely and with minimal disruption to a site.

Incoming Device

On the live side of the incoming MCCB / RCD, 4 no. 4.0mm panel mounted test sockets are incorporated (L1, L2, L3, N), which facilitate voltage testing and the measurement of the earth fault loop impedance of the supply. The impedance of the test socket arrangement is stated on a label adjacent to the sockets and this must be subtracted from the earth fault loop impedance measured on site.

If an RCD is fitted to the incomer, 2 no. 4.0mm panel mounted test sockets are connected to the load side for RCD testing (one phase and neutral only - additional phase sockets can be provided if required).

A common earth socket is provided in the incoming section, which can be used for voltage, earth fault loop impedance or RCD testing purposes.

Outgoing Devices

Each outgoing MCCB / RCD is provided with 2 no. 4.0mm panel mounted test sockets for voltage and RCD testing (one phase and neutral only - additional phase sockets can be provided if required). Each MCCB compartment is fitted with a common earth socket.

All phase test sockets are protected by BS88 fuses, which can be replaced without removing the MDA inset plates. Test sockets are mounted on fixed brackets, which allow inset plates to be easily removed, if required.

Our standard range of high current MDAs is available with test sockets, details are below. Please refer to data sheet DDS102 for the full specification of these MDAs.

Part No.	Rating	Type
S140290TSR	400A	B4/MC400-4P/MRCD3-4P/MGPA8
S140261TSR	630A	B52/ITC/MC630-4P/MRCD5-4P/MGPA8
S140285TSR	800A	B6/ITC/MC800-4P/MRCD7-4P/MGPA12
S140308TSR	1600A	B7/ITC/MC1600-4P/MRCD8-4P/MGPA12

For further information on our range of Mains Distribution Assemblies, please refer to data sheets DDS100, DDS101, DDS102, DDS118, DDS119 and Tech Data Sheet TDS3.



Test sockets fitted in the incoming section of an 800A Mains Distribution Assembly, part S140285TSR



Test sockets fitted in the distribution section of a 1600A Mains Distribution Assembly, part S140308TSR