

# Phase Rotation

This test confirms that all three phase outlets have the same phase rotation as each other, and the incoming supply.

- If there is no live supply, use the method described in the Circuit Polarity test.
- If you have already done the Circuit Polarity test, you do not need to do this test.
- This test applies to multi-phase supplies only.



## YOU'LL NEED:

- a phase-rotation meter or meter with phase-rotation setting.



## BEFORE YOU START:

1. Ensure you are using all relevant personal protective equipment.

## TIP

Use the **ME Hub app** to document your test results as you work.



## HOW:

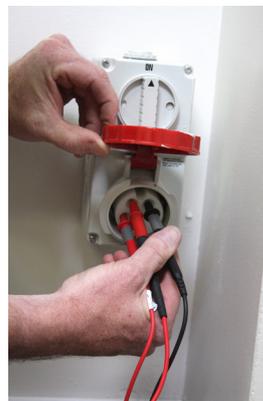
If you are using a phase-rotation meter or a multimeter with three leads, use the three-lead method. If you are using a multimeter with two leads, use the two-lead method.

### THREE-LEAD METHOD

1. Connect the phase-rotation meter to the incoming mains of the switchboard.



2. Check your phase-rotation meter – **result will be either clockwise or anti-clockwise.**
3. Connect the phase-rotation meter to every three-phase outlet in the installation – **all results must have the same phase rotation as the incoming mains.**





### TWO-LEAD METHOD

1. Connect the meter to the incoming mains of the switchboard.
2. Check the meter – **result will be either clockwise or anti-clockwise.**
3. Insert probe 1 into L1 and probe 2 into L2 of socket. Note the indicated direction.
4. Insert probe 1 into L2 and probe 2 into L3 of socket. Note the indicated direction.
5. Insert probe 1 into L3 and probe 2 into L1 of socket. Note the indicated direction.

**All three results must be the same direction.**

6. Repeat for all sockets.

**All sockets must have same phase rotation as the incoming mains.**

