

Manual Supplement

Manual Title: 1742/1746/1748 Users Supplement Issue: **2**
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This supplement contains information necessary to ensure the accuracy of the above manual.

Change #1, 562

On page 28, replace the Note with:

Note

Most power quality standards, such as EN 50160, 9, GOST 33073 refer to IEC 61000-4-30 Class A measurement methods that require Harmonic Sub-Groups.

Under examples replace the first paragraph with:

Select Harmonic Components for measurements according to standards that require the harmonics components measurement according to IEC 61000-4-7, for example IEEE 519 or IEC 61000-3-12.

On page 52, under **Environmental Specifications** replace the Operating Temperature with:

Operating.....-25 °C to +50 °C (-13 °F to +122 °F) warm up the Product to -10 °C (14 °F) before you turn on power.

Change #2, 597

On page 12, replace the **Measurement Line Power Source** section with:

Measurement Line Power Source:

⚠⚠ Warning

To prevent injury, do not touch the metal parts of one test lead when the other is still connected to hazardous voltage.

⚠ Caution

To prevent damage to the Product, make sure the measured voltage does not exceed the input rating of the power supply.

1. Attach the power supply to the Logger.
2. Move the slide-cover on the power supply to access the safety sockets.
3. Connect the short test leads (see Figure 7B & 7C) with the power supply inputs. Make sure to use the non-stackable plugs. The test leads are rated for measurement/overvoltage CAT III 1000 V and CAT IV 600 V.

4. Connect the test leads with the voltage measurement inputs:
 - Connect A/L1 with one input of the power supply.
 - Connect N with the second input of the power supply.OR
 - Connect A/L1 with one input of the power supply.
 - Connect B/L2 with the second input of the power supply.
5. Use the short fan out of the Voltage Test Lead, 3-phase + N. Plug the connector A/L1 into the socket A/L1 of the voltage measurement inputs of the Logger. Repeat this with B/L2, C/L3 and N.

- For measurement connection to the Logger (see Figure 7A):

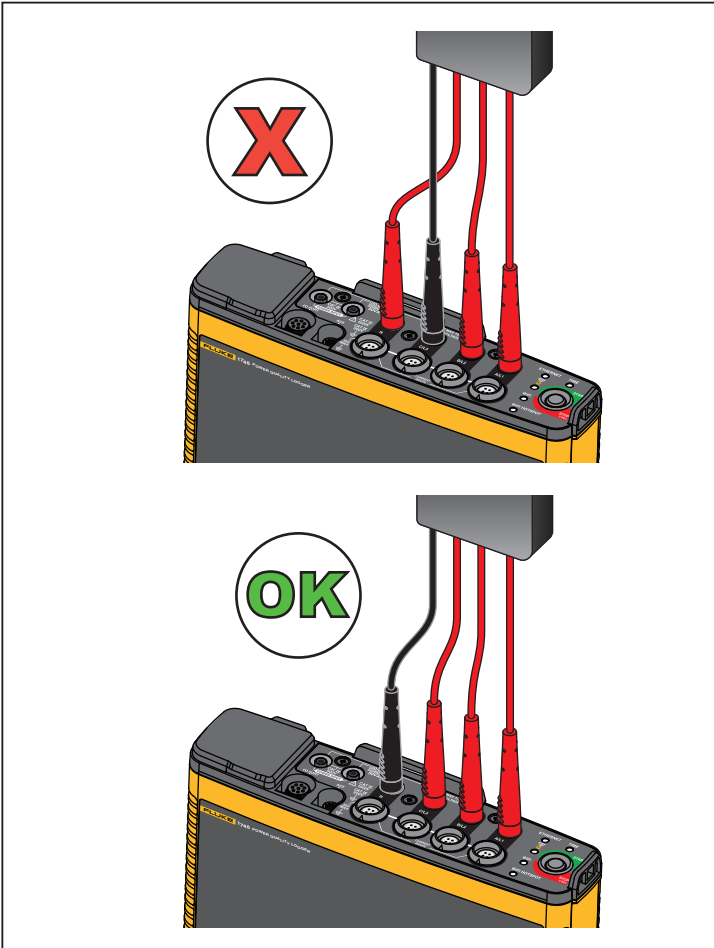


Figure 7A: Measurement connection to the Logger

- To supply power to the Logger from installations with neutral voltage (see Figure 7B):

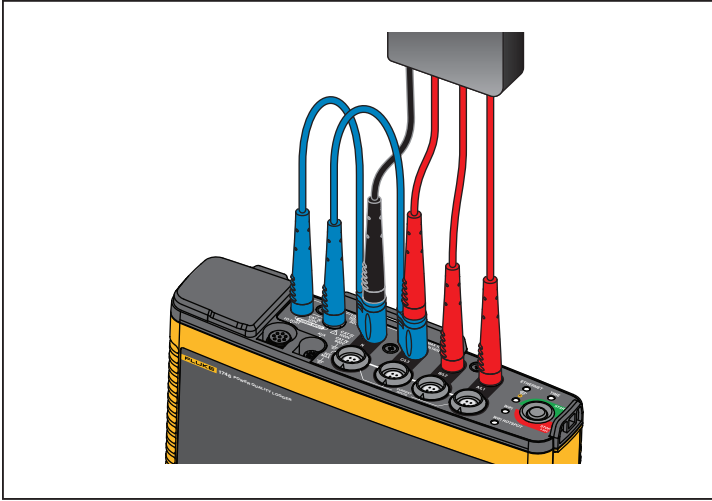


Figure 7B: Measurement with neutral voltage and supplying instrument power.

Note

On single-phase systems, use the set of 1.5 m test leads (item 8 in Figure 7).

6. Connect the voltage inputs to the test points.
The Logger automatically turns on and is ready to use in <30 seconds.

- To supply power to the Logger from installations without neutral voltage (see Figure 7C):

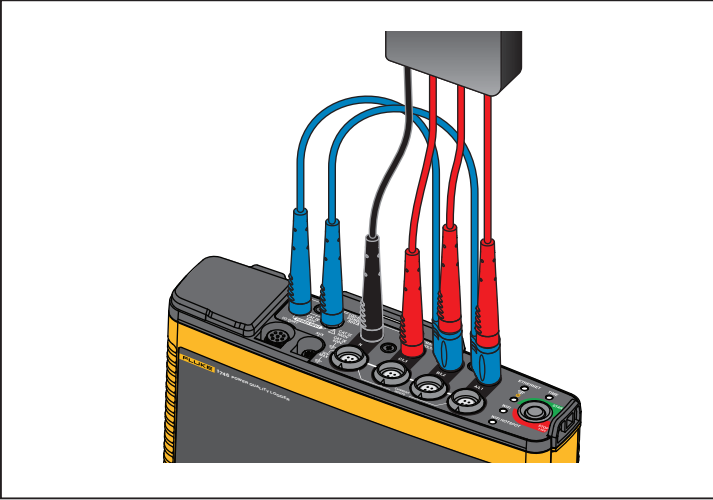


Figure 7C: Measurement without neutral voltage and supplying instrument power.

Note

On single-phase systems, use the set of 1.5 m test leads (item 8 in Figure 7).

7. Connect the voltage inputs to the test points.
The Logger automatically turns on and is ready to use in <30 seconds.