

4. Power supply voltage range

*** All models ***

This test checks the correct operation of the ScopeMeter within the boundaries of the DC supply voltage.

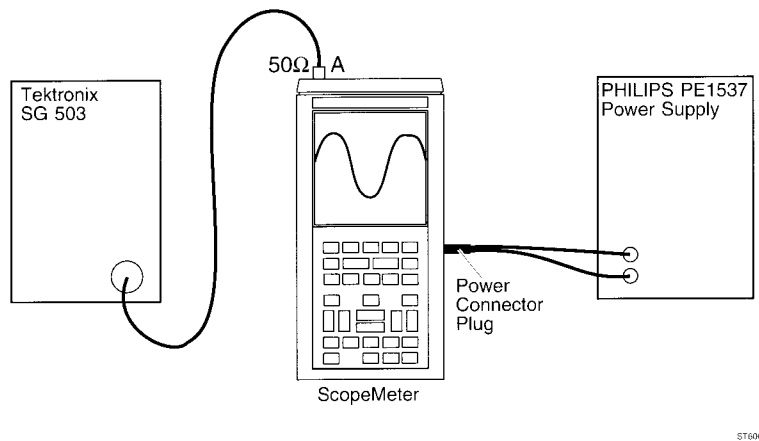
Test equipment:

Philips PE 1537 Power Supply 0-40V/0-1A

Tektronix SG 503 Constant Amplitude Sine Wave Generator

5 mm Power Jack connector plug with attached cable (for example order 4822 321 20125)

Test set-up:



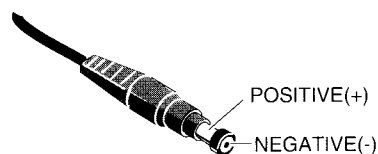
ST6000

Settings/procedure:

- A Insert the power plug into the power adapter contact on the side of the ScopeMeter.
- B Switch on the power supply and set the voltage to a wanted value between 8 and 20V DC.
- C Apply a 50 kHz sine wave with an amplitude of 100 mV peak-to-peak to channel A. Use a 50Ω termination.
- D Switch on the ScopeMeter. At power on, a beep tone must be audible.
- E Press AUTO SET and verify that a well triggered signal with an amplitude of approximately 5 divisions is displayed over the whole supply voltage range.

Requirements:

- A The ScopeMeter must start at any DC voltage between 8 and 20V, applied at its power adapter contact.
- B The ScopeMeter must remain operative over the indicated voltage range.
- C The amplitude of the trace displayed must be approximately 5 divisions, independent of the supply voltage.



ST6001

Figure 4.10 Power Jack connector