5. Supply current

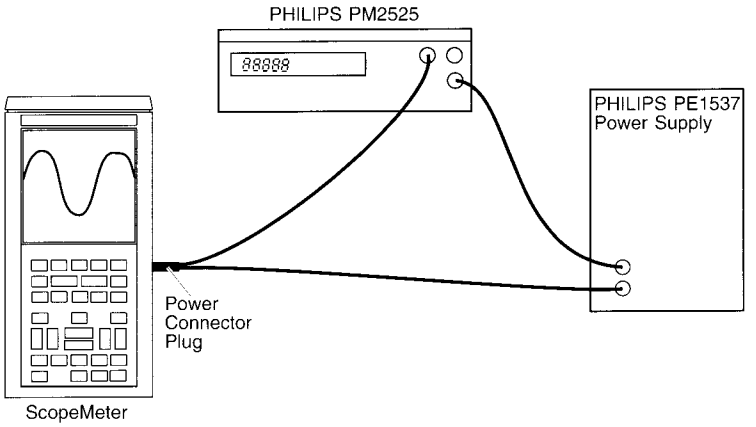
*** All models ***

This test checks the total supply current (ScopeMeter supply current and the built-in battery charger current).

Test equipment:

Philips PE 1537 Power Supply 0-40V/0-1A
Digital Multimeter (Philips PM 2525 or equivalent)
5 mm Power Jack connector plug with attached cable (for example order 4822 321 20125).

Test set-up:



Settings/procedure/requirements:

NOTE: A PM 9086 battery pack (included in the shipment) has to be installed for this test. Only NiCad batteries can be charged by the ScopeMeter!

A Set the power supply to 15V DC.
B Check that the charging current is 200 mA (typical reading on multimeter).
C Switch on the ScopeMeter.
D Check that the total supply current is 330 mA (typical reading on multimeter).

6. Battery backup functional test

*** All models ***

This test verifies that the ScopeMeter settings will be kept in memory if power is switched off while the batteries are installed.

Test equipment:

none

Test setup:

no specific test setup required

Settings/procedure:

A Switch on the ScopeMeter and press the SCOPE key to get into scope mode.
B Press the AUTO SET key and set channel A and B to 500 mV/div. Set the timebase to 1 ms/div.
C Switch off the ScopeMeter with the ON/OFF key and keep it switched off for one hour to enable all capacitors to discharge.
D Press the ON/OFF key to switch on the ScopeMeter again, and verify that the settings for the timebase and attenuator have not changed.

Requirements:

ScopeMeter settings at power off must be restored the next time power is switched on.