Battery version PM2525

Operation Manual

4822 872 30383 880311





Industrial & Electro-acoustic Systems



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PHILIPS

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1. INTRODUCTION

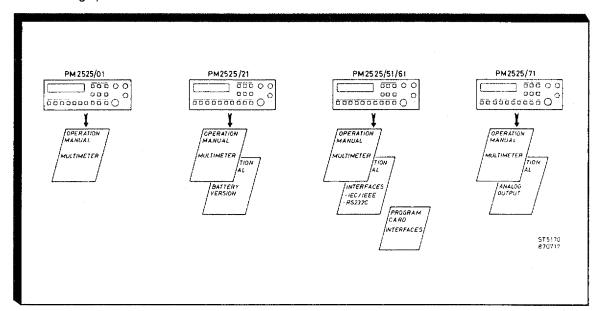
The PM2525/21 is the standard multimeter PM2525 equipped with a rechargeable battery power supply.

2. OPERATION MANUAL STRUCTURE FOR PM2525 FAMILY

The PM2525 family consists of different type numbers viz:

The standard multimeter version PM2525/01
The battery operated version PM2525/21
The IEC-625/IEEE-488 interface version PM2525/51
The RS-232C/V24 interface version PM2525/61
The analog output version PM2525/71

The following operation manuals should be used.



3. **ADDITIONAL CHARACTERISTICS**

3.1 **GENERAL**

The charateristics of the PM2525/01 is supposed to be part of this specification.

ADDITIONAL SPECIFICATION POINTS AND LIMITATIONS 3.2

Operating time on battery : >6 hrs

Charing time

: 15 Hrs

Power consumption

: 20 VA

Storage temperature

: -15°C ... +20°C

Limit range of operation

: 0°C - 45°C

Low Battery voltage giving

→ in display

: <5.85 V

Charging voltage

: 7.4 V current limited to 250 mA

Standby charging voltage : 6.7 V

Battery power supply switches from high charging voltage to standby charging voltage if the charging current drops below 50 mA.

Temperature coëfficient

of charging voltage

: -10 mV/°C

Battery

: 1 x Pb celf (6 V)

4. SAFETY INSTRUCTIONS

4.1 EARTHING (GROUNDING)

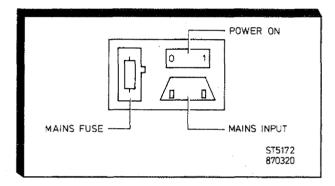
This instrument has a double-insulated power supply. In normal operation the need of a protective earth connection is obviated.

4.2 MAINS VOLTAGE SETTING AND FUSES

- Before inserting the mains plug into the mains socket, make sure that the instrument is set to the local mains voltage.

NOTE: If the mains plug has to be adapted to the local situation it should only be done by a qualified person.

WARNING: The instrument shall be disconnected from all voltage sources when a fuse is to be renewed, or when the instrument is to be adapted to a different mains voltage.



- The instrument shall be set to the local mains voltage only by a qualified person who is aware of the hazards involved.
- Make sure that only fuses of the required current rating, and specified type are used for renewal. The use of repaired fuses, and/or the short-circuiting of fuse holders, is prohibited.
- Fuses shall only be renewed by a qualified person who is aware of the hazard involved.

5. OPERATING INSTRUCTIOND

5.1 PRECAUTIONS TO BE TAKEN WHEN USING, CHARGING AND STORING THE PM2525/21

- Charge the PM2525/21 immediately after use. The best way to keep the battery in the PM2525/21 in a good condition is to keep it fully charged.
- Store the PM2525/21 preferably at an ambient temperature between 15°C and + 20°C.
 At a higher temperature, the chemical reaction in the electrolyte of the battery and thus the self-discharging is accelerated.

At a lower temperature, when the battery is not fully charged, the battery can freeze and be damaged.

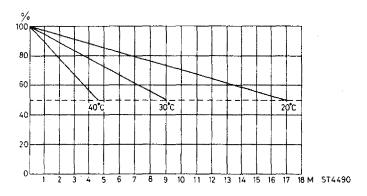
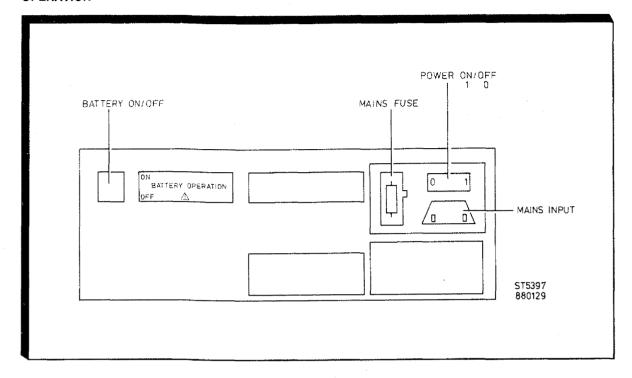


Fig. 1. Self-discharging of the battery (charge in % of maximum charge as a function of time in months).

- During extended storage, it is recommended to charge stored batteries every three months.
- If the battery terminals are shortcircuited a current of over 100A will flow and the terminal will be burned. In such a case recently charged batteries may explode due to the oxygen and hydrogen produced in the charging process.
- If the battery case is broken, hands and cloth may come into contact with the electrolyte. The best neutralyzing agent for the electrolyte is sodium carbonate (Na₂CO₃).
- If the latter is not available, hands and cloth must be throughly washed with water and soap.
- Never use paraffin oil or thinner to clean the battery case. Always use a soft cloth dampened with denatured alcohol or water. Afterwards wipe the case with a dry cloth.

OPERATION 5.2



For charging the battery and powering the PM2525 proceed as follows:

POWER SWITCH	BATTERY SWICH	OPERATION
OFF	OFF	No operation
ON	, OFF	Mains operation
OFF	ON	Battery operation
ON	ON	Charging battery *

5.3 ORDERING INFORMATION OF THE RECHARGEABLE BATTERY

Battery

: 6 V Pb-cell (lead)

Dimensions

: length 134 mm

width 34 mm

height 60 ... 70 mm

The 6 V Pb-cell has no service ordering number due to deep unloading in stock. The deep unloading damages the cell.

The following manufacturer types may be used:

Standard in PM2525/21

YUASSA NP 2.6-6

6 V 2.6Ah

Substitutes

SAFT VARTA PA601 56030703063 6 V 4Ah 6 V 3Ah

200 841783