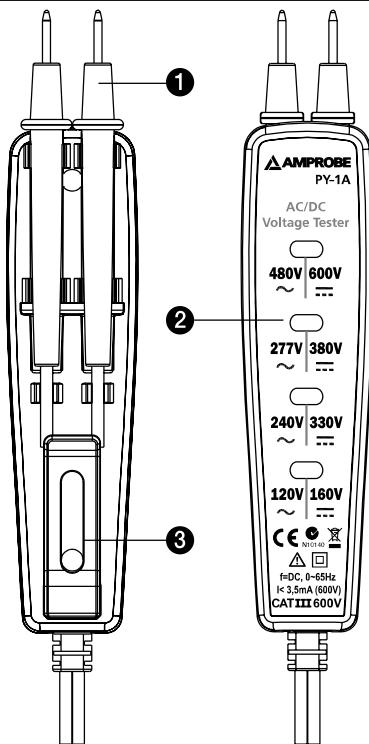


Users Manual

- Mode d'emploi
- Bedienungshandbuch
- Manual d'Uso
- Manual de uso

PY-1A AC / DC Voltage Tester



- ① Test Probes
- ② Neon for Voltage indication
- ③ Pocket Clip

CONTENTS

SYMBOLS	2
UNPACKING AND INSPECTION	5
INTRODUCTION	5
OPERATION	5
SPECIFICATION	6
MAINTENANCE	6
TROUBLE SHOOTING	7

SYMBOLS

	Warning of a potential danger, comply with instruction manual.
	Caution! Dangerous Voltage. Danger of electrical shock.
	Continuous double or reinforced insulation complies with Category II IEC 536
	Confirmity symbol, the instrument complies with the valid directives. It complies with the EMC Directive (89/336/EEC), Standards EN 50081 and EN 50082-1 are fulfilled. It also complies with the low Voltage Directive (73/23/EEC), Standard EN 61010-1 is fulfilled. Measurement category III is for measurements performed in the building installation.
	Instrument complies with the standard (2002/96/EEC) WEEE
	The instruction manual contains information and references, necessary for safe operation and maintenance of the instrument.

Warnings!

This Electrical Tester has been constructed and verified in compliance with the lastest safety standards and have left the factory in safe and perfect conditions. Prior to using the instrument (commissioning/assembly) the user is kindly requested to thoroughly read the instruction manual and comply with it in all sections.

- Failure to read the instruction manual or to comply with the warnings and references contained herein can result in serious bodily injury or instrument damage.

- The respective accident prevention regulations established by the professional associations for electrical system and equipment must be strictly met at all times.
- In order to avoid electrical shock, the valid safety regarding excessive contact voltages must receive utmost attention, when working with voltages exceeding 120V (60V) DC or 50V (25V) rms AC. The values in bracket are valid for limited ranges (as for example medicine and agriculture).
- Never connect the tester to voltage for longer than 30 seconds. For next operation, a recovery time of minimum 240 seconds is needed
- The instrument may only be used within the operating ranges as specified in the technical data section and in low voltage system up to 600V.
- Measurements in dangerous proximity of electrical system are only to be carried out in compliance with the instructions of a responsible electronics technician, and never alone.
- The electrical testers may no longer be used if one or several functions fail or if no functionality is indicated.
- Do not use this instrument under damp conditions.
- Perfect display is only guaranteed within a temperature range of 5°C up to +40°C at relative humidity <80%.
- Test leads and test probes may only be touched at handle surfaces provided. Absolutely avoid the direct contact of the rest probes.
- Prior to usage ensure perfect instrument function (e.g. on known voltage source).
- The instrument may only be opened by an authorized service technician.

The safety can no longer be insured if the instrument:

- Shows obvious damage.
- Does not carry out the desired measurements.
- Has been stored for too long under unfavorable conditions
- Has been subjected to mechanical stress during transport.
- Avoid any heating up of the instrument by direct sunlight to ensure perfect functioning and long instrument life.
- The instrument may only be used under those conditions and for those purposes for which it was conceived. For this reason, in particular the safety references, the technical data including environmental conditions and the usage in dry environments must be followed. When modifying or changing the instrument, the operational safety is no longer ensured.
- The instrument may only be used under those conditions and for which it was conceived. For this reason, in particular the safety references, the technical data including the environmental conditions and the usage in dry environments must be followed.

UNPACKING AND INSPECTION

Your shipping carton should include:

- 1 Electrical Tester PY-1A
- 1 Instruction Manual

If any of the items are damaged or missing, return the complete package to the place of purchase for an exchange.

INTRODUCTION

This Electrical Tester is for universal applications for indoor use only. It represents a valuable support for all testing in handicraft and industrial applications.

The electrical tester is characterized by the following features.

- AC voltage detection up to 480V, and DC voltage upto 600V.
- Bright neon AC/DC voltage display.
- Ergonomically and robust housing.
- Snap-in leads are spaced to fit to the standard US/ Canada outlet, for easy, one hand operation.
- Integral probe storage for easy carrying.

OPERATION

- Test the electrical tester on a known source.
- Connect both test leads with UUT.
- The voltage is displayed via Neon lamps.
- The instrument with 120, 240, 277, 480V AC range and 160, 330, 380, 600V DC range.

SPECIFICATION

Voltage Range	120, 240, 277, 480V AC 160, 330, 380, 600V DC
Response Time	<0,3s
Frequency Range	DC, 0~65Hz
Internal Load	approx. 2.0 W/ 600V
Test Current	<3.5 mA
Operation Time (DT)	30s
Recovery Time	240s
Temperature Range	5°C ~ +40°C (41°F ~ 104°F)

Humidity	Max. 80% rel. H.
Height above sea level	up to 2000 m (6562 ft)
Measurement Cat.	CATIII / 600V
Pollution Degree	2
Safety Standards	IEC 61010, UL 61010, CSA
22.2 No. 61010	
Weight	Approx. 50g (0.11 lb)
Dimension (5.9x1.3x1.0 in)	Approx. 150X32X26 mm

MAINTENACE

When using the instrument in compliance with the instruction manual, no special maintenance is required. Should operational problems occur during daily use, our consulting service will be at your disposal, free of charge.

If functional errors occur after expiration of warranty, the repairing of the tester should be performed only by a Factory Authorized Service Center or by other qualified instrument service personnel. The front panel and case can be cleaned with a mild solution of detergent and water. Apply sparingly with a soft cloth and allow to dry completely before using. Do not use aromatic hydrocarbons or chlorinated solvents for cleaning.

Do not attempt to repair this tester. It contains no user-serviceable parts. Repair or servicing should only be performed by qualified personnel.

TROUBLE SHOOTING

If the instrument fails to operate, check test leads, and replace as necessary. Double check operating procedure as described in this user's manual.