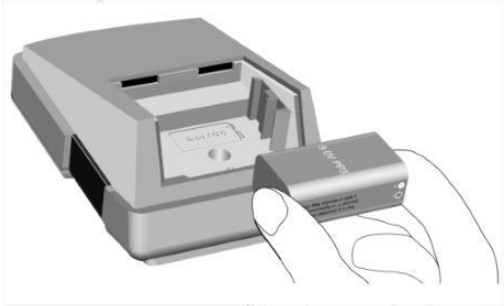
H28342 Benchmark a.c. Ammeter NFU151h

Purpose

Digital ammeter: 0 to 19.99 amps a.c.

One of a range of digital instruments specially designed for educational applications. The units provide the user with accurate measurement of a range of physical quantities.



Apparatus details

Fitting the battery

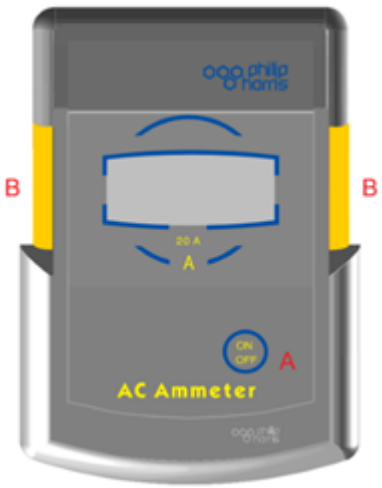
All Benchmark units require 9V PP3 type batteries. Open the battery compartment by pressing the battery cover at the top end of the case. This releases the battery cover catch, allowing the cover to be lifted, Check the polarity, press the battery into place and replace the cover.

Auto Switch-off

To help prolong battery life, all Benchmark instruments incorporate automatic switch-off. All the electrical meters switch off after 50 minutes. The instruments may be reactivated by pressing the ON/OFF keypad. They may also be switched off manually before this time by pressing the same keypad.

Operating procedures

All meters are switched on by pressing the ON/OFF keypad (A). They are connected into the circuit under investigation via their 4mm sockets (B) in the usual way, ensuring that the voltages involved are within the range of t he chose meter or meters.



There are two a.c. meters in the range with can be used to measure alternating current and voltages.

The user must ensure that the current is limited by the external circuits, to a maximum value within the range of the meter or meters used. Because the currents flowing in a circuit are frequently less well defined than the voltages, more care is required when using current measuring instruments than is the case with voltmeters.

For example, inadvertently connecting any kind of current meter directly across the terminals of a power supply or battery will result in a current flowing that is limited only by the (usually very low) internal resistances of the power source and the meter, and may well be beyond the capabilities of either.

version H28342.15.03

Notes For Use

Specification: a.c. Ammeter

Range:	0 to 19.99A a.c.
Input impedance:	0.01Ω
Accuracy:	± 2% of full scale
Frequency response:	± 2% from FSD from 0 to 10kHz

Display:
3.5 digit liquid crystal
13mm characters
Low battery indication.

Internal battery:
9V type PP3 or equivalent
Expected battery life 5000 hours from alkaline PP3.

Automatic Switch-Off:
Operates after approximately 50 minutes.

Dimensions:
130 x 92 x 55m (length x width x depth)

The Benchmark range

d.c. Ammeter	H27726
d.c. Milliammeter	H29097
d.c. Microammeter	H29139
d.c. Voltmeter	H27763
d.c. Millivoltmeter	H29164
a.c. Ammeter	H28342
a.c. Voltmeter	H29954
Coulombmeter	H29723
Stopclock	H28603

Safety advice
For your safety, this product should be used in accordance with these instructions; otherwise, the protection provided may be impaired.

version H28342.15.03

Notes For Use

This unit is intended for use in DRY conditions. Avoid spillage of water and other liquids on to the unit. There is no specific requirement for insulation of external circuits as they cannot become hazardous live, as a result of connection to this unit

Disclaimer
If the equipment is used in a way not specified by Philip Harris, then the protection provided may be impaired.

Warranty, repairs and spare parts
The product is guaranteed for a period of one year from the date of delivery to the customer. This warranty does not apply to defects resulting from the action of a user such as misuse, improper wiring, any operations outside of its specification, improper maintenance or repair, or unauthorized modification.

Our liability is limited to repair or replacement of the product. Any failure during the warranty period should be referred to Customer Services.

In the event of a fault, the product should be referred to the Philip Harris recommended repair agent.

Disposal of Waste Electrical and Electronic Equipment (WEEE)

Do not dispose of this product with household waste

- For the proper treatment, recovery and recycling please take this product to an appropriate collection point.
- If you are unsure where this is, contact your Local Authority.
- By disposing of this product correctly you will be providing positive help to the environment.

Philip Harris Education, 2 Gregory Street, Hyde, Cheshire, SK14 4RH

Orders and Information	Tel: 0845 120 4521
	Fax: 0800 138 8881
Repairs	Tel: 0845 120 3211

E-mail: techsupport@philipharris.co.uk
Website: www.philipharris.co.uk

CE

version H28342.15.03