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Manual PCE-DC 3 HVAC Meter





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1. Features

- High resolution to 1mA AC
- 3-2/3 digit (2400 count) LCD display
- White LED backlight
- Built-in non-contact AC voltage detector plus flashlight
- · Autoranging with auto power off
- 0.7" (18mm) Jaw opening

2. Specifications

General Specifications

Display 3-2/3 (2400 count) Digit LCD with white LED backlight

Polarity Minus sign (-) indicates negative polarity

Current sensor Hall effect sensor type
Overload indication "OL" displayed on the LCD

DCA zero adjust One touch zero key

Display rate 2 readings/second, nominal
Battery Two 1.5V AAA batteries
Low Battery indication "BATT" displayed on the LCD

Auto OFF approx. 7 minutes

Operating conditions 32°F to 86°F (0°C to 30°C) 90%RH; 86°F to 104°F (30°C to 40°C) 75%RH; 104°F to 122°F

(40°C to 50°C) 45%RH

Storage conditions - 14°F to 140°F (-30°C to 60°C); < 90% Relative Humidity

Altitude Operate at less than 3000 meters Weight 6.2 oz. (175g) including battery

Dimensions 164 x 65 x 32mm (6.5 x 2.6 x 1.3") (HXWXD)

Jaw opening 18mm (0.7")

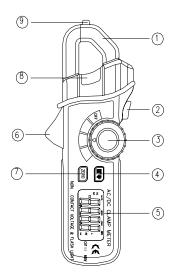
Standards EN61010-1, EN61010-2-032 Category II 600V, Category III 300V

Range Specifications

- V F				
Function	Range	Resolution	Accuracy (of reading)	
DC Current	2A	1mA	± (2.8% + 10 digits)	
DC Current	80A	100mA	±(3.0% + 8digits)	
AC Current (50/60Hz)	2A	1mA	±(3.0% + 10 digits)	
AC Current (50/00Hz)	80A	100mA	±(3.0% + 8 digits)	
Non-Contact AC Voltage		100VA	C to 600VAC 50/60Hz	

3. Meter Description

- 1. Current sense jaw
- 2. Flashlight button
- 3. Rotary function switch
- 4. Data HOLD and Backlight key
- 5. LCD display
- 6. Clamp trigger
- 7. One-touch DCA ZERO key
- 8. Non-contact AC voltage indicator light
- 9. Non-contact AC voltage detector probe tip





4. Safety Information

\triangle	Caution!	Refer to the explanation in this	Manual
	Double Ir	nsulation	

This meter has been designed to be safe in use, but the operator must use caution in its operation. The rules listed below should be carefully followed for safe operation.

- 1. **NEVER** apply voltage or current to the meter that exceeds the specified maximum:
- USE EXTREME CAUTION when working with voltages greater than 25VAC rms. These voltages are considerd a shock hazard.
- 3. **NEVER** operate the meter unless the back co ver and the battery/fuse door are in place and fastened securely

Input Limits				
Function	Maximum Input			
AC Current	80A			
DC Current	±80A			

5. Operation

AC Current Measurements

- 1) Set the Function switch to the ACA range.
- 2) Press the jaw trigger and clamp around, fully enclosing a single conductor.
- 3) Do not allow a gap between the two halves of the jaw.
- 4) Refer to the diagram at right for the correct way to enclose a single conductor.
- 5) Read the ACA value on the LCD.

DC Current Measurements

- 1) Set the Function switch to the DCA range.
- 2) Press the ZERO key to null the meter display.
- 3) Press the Trigger to open the current sense Jaw.
- 4) Fully enclose the conductor to be measured.
- 5) Do not allow a gap between the two halves of the jaw.
- 6) Read the DCA value on the LCD.

Non-Contact AC Voltage Measurements

WARNING: Risk of Electrocution. Before use, always test the Voltage Detector on a known live circuit to verify proper operation

- 1) Touch the probe tip to the hot conductor or insert into the hot side of the electrical outlet.
- 2) If AC voltage is present, the detector light will illuminate.
 - **NOTE**: The conductors in electrical cord sets are often twisted. For best results, rub the probe tip along a length of the cord to assure placing the tip in close proximity to the live conductor.

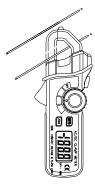
NOTE: The detector is designed with high sen sitivity. Static electricity or other so urces of energy may randomly trip the sensor. This is normal operation

6. Flashlight

Press and hold the top button to turn the flashlight on. Release the button to turn the flashlight off.

7. Data Hold

To freeze the current reading on the LCD, press the "Hold Backlight" key. The word HOLD will appear on the LCD while the meter is in the Data Hold mode. To release the Data Hold function and return the meter to normal operation, press the "Hold Backlight" key again. The word HOLD will switch off.



WRONG

CURRENT



8. Backlight display

Press and hold the "Hold Backlight" key for more than 2 seconds to turn on the backlight. This will also activate the Data Hold function. To release the Data Hold function and return the meter to normal operation, press the Data Hold key momentarily. To turn off the backlight, press and hold the "Hold Backlight" key for more than 2 seconds

9. AUTO POWER OFF

The auto off feature will turn the meter off after 7 minutes.

10. Battery Replacement

- 1) When the low battery symbol appears on the LCD the batteries must be replaced.
- 2) Power down and remove the rear battery compartment Phillips screw.
- 3) Lift off the battery compartment cover and replace the two 1.5V AAA cells.
- 4) Replace compartment cover and secure the screw.

In this direction will find a vision of the measurement technique:

NOTE: "This instrument doesn't have ATEX protection, so it should not be used in potentially explosive atmospheres (powder, flammable gases)."