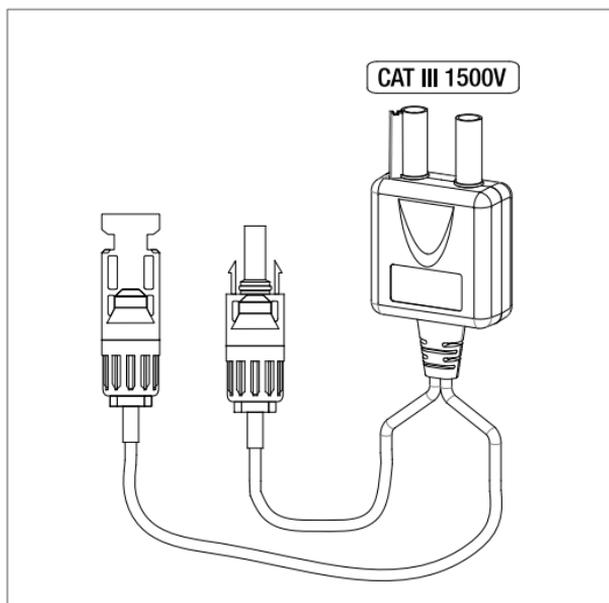




# User Guide

## TA86 MC4 PV Plugs



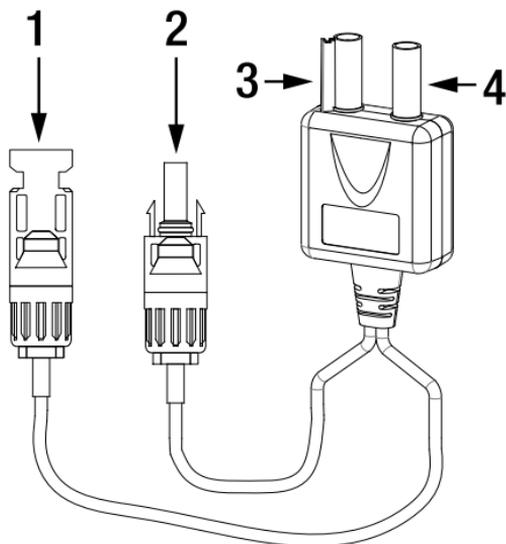
# TA86 Product Information

## INTRODUCTION

This product is designed for use with the FLIR CM276 clamp meter, with the purpose of measuring the power output of solar panels (photovoltaic cells, or PV). This product is rated up to 1500 V AC and 1500 V DC can only be used in environments where there is not a direct connection to Mains.

## PRODUCT DESCRIPTION

1. Female connector to solar panel.
2. Male connector to solar panel.
3. Negative test lead connects to COM jack on meter.
4. Positive test lead connects to positive jack on meter.



## SAFETY



### CAUTION

Ensure that the TA86 plugs are firmly connected to the CM276 input terminals and that the CM276 function switch is set to the PV position. See the CM276 User Manual for full details.



## WARNING

Use caution with voltages above 30 V AC RMS, 42 V AC Peak, or 60 V DC. These voltages pose a shock hazard.

If the plugs are used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

To reduce the risk of fire or electric shock, do not use this product near explosive gases, in areas of high humidity, or when moisture is present.

DO NOT USE the plugs if the internal white insulation layer in the wires is exposed.

DO NOT USE the plugs above the maximum CAT ratings for voltage and current, these limits are indicated on the products.

DO NOT USE the plugs to measure signals > 1500 V when connected to the MAINS directly.

## MAINTENANCE



## CAUTION

Do not attempt to repair test leads, probes, or plugs, they contain no user-serviceable parts. Repair or servicing should only be performed by qualified personnel. Contact FLIR for assistance.

## Cleaning

Wipe the test leads, probes, or plugs with a damp cloth and mild detergent, if necessary. DO NOT use abrasives or solvents and DO NOT IMMERSE in liquid.

## SPECIFICATIONS

|                        |                                    |
|------------------------|------------------------------------|
| Input impedance        | 10 M $\Omega$                      |
| Over-voltage category  | CAT III 1500 V                     |
| Pollution degree       | 2                                  |
| Environmental ratings  | -10 to 45°C (-4° to 113°F), 80% RH |
| Altitude               | 2000 m (6562 ft.)                  |
| Safety standards       | EN 61010-031                       |
| CAT application fields |                                    |

|         |   |
|---------|---|
| CAT II  | Circuits directly connected to low-voltage installations. |
| CAT III | Building installation, solar PV application.              |
| CAT IV  | Source of a low-voltage installation.                     |

## **CUSTOMER SUPPORT**

Customer Support Local Telephone List:

<https://support.flir.com/contact>

Returns (RMA):

<https://customer.flir.com/Home>





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**Website**

<http://www.flir.com>

**Customer support**

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Publ. No.: NAS100181  
Release: AC  
Commit: 95320  
Head: 95339  
Language: en-US  
Modified: 2024-01-08  
Formatted: 2024-01-08