



# **IMT-L4**

## **User`s Manual**

## **Functional description**

The IMT-L4 provides automatic shutdown of multiple file servers supported by a single IMV VICTRON UPS. Each file server must be running IMV VICTRON's shutdown software or have its own integrated UPS monitoring and shutdown facility. To increase data security, the UPS can be turned off after all the connected servers have been shut down safely.

In addition, the IMT-L4 is capable of supervising the connection between the UPS and the IMT-L4. Please note that more than four servers can be supported by "daisy-chaining" IMT-L4 units together. All signal connections are carried out free of potential.

## **Suitable uninterruptible power supplies (UPS)**

The IMT-L4 is designed for use with all IMV VICTRON UPS with ComConnect interfaces.

## **Contents of the IMT-L4 kit and additional equipment**

The IMT-L4 kit includes the following:

- 1 IMT-L4
- 1 AC-adaptor (230 V, 50 / 60 Hz)
- 1 UPS connecting cable (DB9 male to DB9 female)
- this manual

UPS connecting cables and daisy-chain cables are also available in lengths up to 100 m. Please contact your distributor for details.

## **UPS connecting cable**

Please connect the IMT-L4 and UPS using the interface cable. Connect the DB9 male connector to the connector labeled 'UPS' on the back of the IMT-L4. Connect the DB9 female connector to the ComConnect interface connector on your IMV VICTRON UPS. The connection cable(s) from the computer(s) to the IMT-L4 should be labeled VIC28 for UNIX and VIC25 in all other cases.

**ATTENTION ! : Use shielded cables only. Shield must be connected to your UPS' ground!**

## **AC-adaptor**

The IMT-L4 is delivered together with an AC/AC adaptor. This adaptor has a CEE22-plug and is designed for input voltages of 230 Volts AC at 50 / 60 Hz. The adaptor is connected to the IMT-L4 by the jack marked AC IN on the back of the IMT-L4.

**NOTE: The AC-adaptor has to be plugged into the output circuit of the UPS**

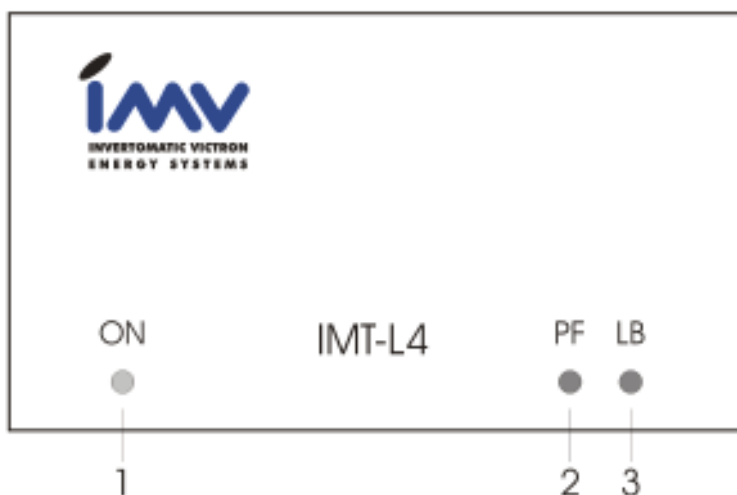
## Connecting servers / workstations

Up to four computers can be connected to the IMT-L4 through the output jacks. Please ensure that the used monitoring software has to be designed for IMV VICTRON's ComConnect interface. The original cables provided with the Software kits can then be connected to the IMT-L4.

**ATTENTION ! :      Use shielded cables only. Shield must be connected to your computer's ground!**

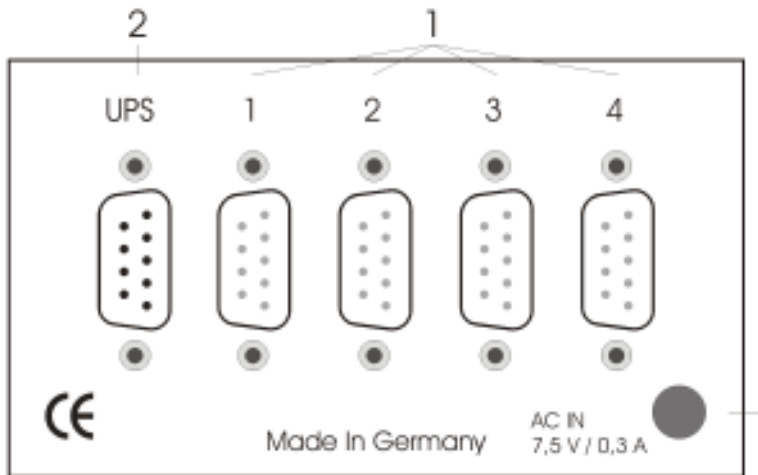
NOTE: Since the UPS will not be turned off by the IMT-L4 **until all connected computers have been shut down**, you should ensure that none of these computers prevents this process occurring because of improper adjustment of the software parameters.

### Front display panel



- 1: LED (green): IMT-L4 status
  - 2: LED (red): UPS Power-Fail
  - 3: LED (red): UPS Low Battery
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- 1: IMT-L4 status (ON)  
The green LED indicates normal operation of the IMT-L4 after correct initialization. A bad connection between the IMT-L4 and the UPS will be detected by the IMT-L4 and displayed with the green LED flashing.
  - 2: Display for Power-Fail (PF)  
If the UPS detects a power fail, this information is sent to the IMT-L4, and the red LED is lit.
  - 3: Display for Low-Battery (LB)  
If the battery voltage of the UPS falls below a certain limit, this information is sent to the IMT-L4 and the IMT-L4 lights the red LED.

## Rear panel



- 1: Connectors DB9 male for interface cables No. 1..4
- 2: Connector DB9 female for UPS connecting cable
- 3: Jack for AC-Input (7,5 V / 0,3 A)

## UPS shutdown

The IMT-L4 is able to turn off the UPS to avoid unnecessary discharge of the UPS' battery after all connected computers have been shut down. This process will not be initiated until all connected servers have enabled the UPS shutdown by giving the signal Power-Off-Request (POR). Some kinds of monitoring software (e.g. for UNIX) are not able to give this signal, so these computers will prevent the UPS shutdown. Please note that this signal has to be valid for at least 6 seconds to be accepted by the IMT-L4

## Specifications

- Supply: 7,5 V AC, max. 0,3 A
- AC-adaptor: IEC320 plug, Input 230 V, 50 / 60 Hz
- Power consumption: 5 VA max.
- Dimensions: 110 x 60 x 87 mm
- Contact loading: max. +/- 48 V DC / 0,2 A (Pin 7,8,9)  
max. + 35 V DC / 20 mA (Pin 3,6)

## Installation hints

- Operating temp.: 0 .. 50 °C
- Storage temp. -10 .. 60 °C
- Operating position: any

## **Service and maintenance**

The IMT-L4 requires no maintenance. Unauthorized opening of the device voids the warranty.

## **Warranty**

The manufacturer warrants the product for 12 months from date of purchase. This warranty extends to replacement of parts and labour. Further claims as a result of external influences (eg fire, flood etc) are excluded. Unauthorized opening of the device voids this warranty.

## **Support**

First line support is done by your local Victron / IMV distributor, please contact them for any problems with installation or use.

Second line support is done by Victron / IMV Software Department to be reached by:

Telephone: +31 505977785

Fax: +31 505977795

## **E-Mail support**

You can send your support request by E-Mail to [connect@victron.nl](mailto:connect@victron.nl), if you are a compuserve user it is [internet:connect@victron.nl](mailto:internet:connect@victron.nl).

## **Internet support**

On-Line support is also possible on request if your computer has access to the Internet.

## **BBS / WWW / FTP server support**

We will publish updates and patches in different areas at our BBS / WWW / FTP server. You can access the needed area of our BBS by dialing +31 505977792 and entering your name and when it's the first time answering all the questions. From the menu choose <F>iles, <A>rea and then the needed product. We have the FTP server running at <ftp.victron.nl>, if you have access to the Internet it's the fastest and cheapest way to get your files. We have the WWW server running at [www.victron.nl](http://www.victron.nl), with your favourite WEB browser you can access the latest files but also all the information pages from Victron / IMV.

## **Inquiries and suggestions**

For any inquiries about the product or suggested improvements you may also use the above addresses.

## **DECLARATION OF CONFORMITY**

Schläfer & Hellmich GmbH  
Koellestr. 30b  
D-76189 Karlsruhe, Germany

herewith declares that the product IMT-L4, Type V,

to which this declaration relates is in conformity with the following standards.  
EN55022, EN50082-1, EN50081-1, EN61000-4-4, EN61000-4-2, ENV50140

Karlsruhe, 14.02.2000

Specifications and design may be subject to change without notice.

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## Support request form

Support requested by:

Company name:

Department:

Name:

Tel:

Fax:

E-Mail:

Support needed for:

Company name:

Department:

Name:

Tel:

Fax:

E-Mail:

Victron / IMV Software

Product name (Wiz-Kit / PowerFLAG / ...) :

Version number (4.05 / 4.01 / ...) :

Serial number (none / 50000023 / ...) :

Date of purchase / delivery (1-may-95 / ...):

Bought from (...) :

Computer where the software is running on

Brand (HP / IBM / ...) :

Type (U6000-5500 / ...) :

Processor (Intel / Sparc / ...) :

Operating system (HP-UX / AIX / SCO / ...) :

Version number of operating system (8.0 / 3.2 / ...) :

Release number of operating system (V4.1 / .2.3 / ...):

Problem description: