DEIF

-power in control

CE

# DESCRIPTION OF OPTION

# Power Supply for SD Datalog Interface

- Supplies up to 6 SD Datalog Interfaces
- Can be used for other applications with needs of a 12 VAC supply

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# 1. About this document

This chapter includes general user information about this handbook concerning the general purpose, the intended users and the overall contents and structure.

## General purpose

This document describes the usage and technical data of the power supply for the SD datalog interface.

## Intended users

The document is mainly intended for the person responsible for the installation. In most cases, this would be a panel builder designer. Naturally, other users might also find useful information here.

## Contents/overall structure

The document is divided into chapters and in order to make the structure of the document simple and easy to use, each chapter will begin from the top of a new page. The following will outline the contents of each of the chapters.

### About this document

This first chapter includes general information about this handbook as a document. It deals with the general purpose and the intended users of the document. Furthermore, it outlines the overall contents and structure of the document.

### Warnings and legal information

The second chapter includes information about general legal issues and safety precautions relevant in the handling of DEIF products. Furthermore, this chapter will introduce the note and warning symbols, which will be used throughout the handbook.

### First part

The first part of this document describes the usage, wiring and technical dimensions of the power supply.

### Second part

The second part of this document states the technical data of the power supply.

# 2. Warnings and legal information

This chapter includes important information about general legal issues relevant in the handling of DEIF products. Furthermore, some overall safety precautions will be introduced and recommended. Finally, the highlighted notes and warnings, which will be used throughout this handbook, are presented.

## Legal information and responsibility

DEIF takes no responsibility for installation of the energy and power meters. If there is any doubt about how to install or operate the products, the company responsible for the installation or the operation of the products must be contacted.

**The units are not to be opened by unauthorised personnel. If opened anyway, the warranty will be lost.**

## Electrostatic discharge awareness

Sufficient care must be taken to protect the terminals against static discharges during the installation. Once the unit is installed and connected, these precautions are no longer necessary.

## Safety issues

Installing the unit implies work with dangerous currents and voltages. Therefore, the installation should only be carried out by authorised personnel who understand the risks involved in working with live electrical equipment.

**Be aware of the hazardous live currents and voltages. Do not touch any AC measurement or supply inputs as this could lead to injury or death.**

## Definitions

Throughout this document a number of notes and warnings will be presented. To ensure that these are noticed, they will be highlighted in order to separate them from the general text.

### Notes

**The notes provide general information which will be helpful for the reader to bear in mind.**

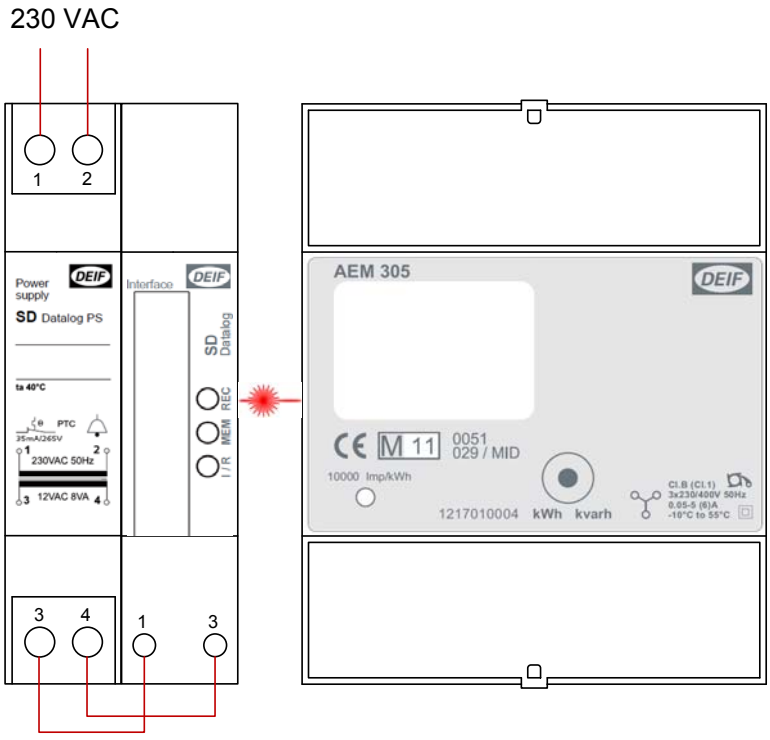
### Warnings

**The warnings indicate a potentially dangerous situation which could result in death, personal injury or damaged equipment, if certain guidelines are not followed.**

# 3. Description of system

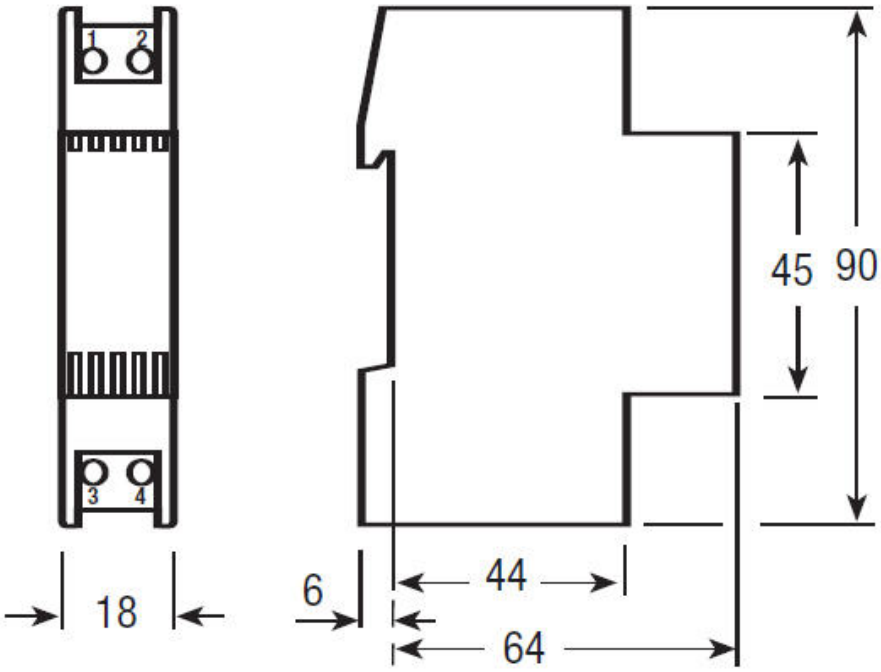
This manual describes the **Power Supply** for the SD Datalog interface**.**

The following layout indicates an example of the use of the **Power Supply**. It is possible to supply up to 6 SD Datalog interfaces from one **Power Supply**.




For applications with needs of 12 VAC, the **Power Supply** also applies as a functional supply.

# 4. Dimensions



# 5. Technical data

Data in compliance with EN 61558-1 and EN 61558-2-8.

| | | | |
|---|---|---|---|
| **General characteristics** | | | |
| Housing | DIN 43880 | DIN | 1 module |
| Mounting | EN 60715 | 35 mm | DIN rail |
| Depth | | mm | 70 |
| **Auxiliary supply (primary)** | | | |
| Supply voltage rating Un | | V(AC) | 230 |
| Supply voltage range | | V(AC) | (0.80 to 1.20)x Un |
| Primary current | | mA | 46 |
| Frequency rating | | Hz | 50/60 |
| **Output (secondary)** | | | |
| Output voltage rating | | V(AC) | 12 |
| Output current | | A | 0.667/0.333 |
| Total power | | | |
| - Discontinues power(max) | | VA | 8 |
| - Continues power | | VA | 4 |
| **Features** | | | |
| SD Datalog interface supply | | Max. | 6 |
| **Safety acc. to IEC 60950** | | | |
| Degree pollution | | | 2 |
| Overvoltage category | | | II |
| Working voltage | | V | 300 |
| Clearance | | mm | ≥ 4.0 |
| Creepage distance | | mm | ≥ 4.0 |
| Test voltage | impulse (1.2, 50µs) peak | | |
| | on AC power supply | kV | 2.5 |
| Housing material flame resistance | 50 Hz 1 min<br>UL 94 | kV<br>class | 2.5<br>V0 |
| **Connection terminals** | | | |
| Cage type | Screw head Z± | POZIDRIV | PZ1 |
| Terminal capacity | Solid wire min.(max) | mm² | 0.15(4) |
| | Stranded wire with sleeve min.(max) | mm² | 0.15(6) |
| **Environmental conditions** | | | |
| Operating temperature | | °C | 0...+55 |
| Relative humidity | | % | ≤ 80 |
| Limit temperature of transportation and storage | | °C | -20...+70 |
| Vibrations(sinusoidal) | 5 Hz to ≤ 10 Hz constant displacement | mm | ± 0.25 |
| Protection class | Acc. to IEC 60950 | | II |
| Degree of protection | Housing when mounted | | IP20 |

DEIF A/S reserves the right to change any of the above.