

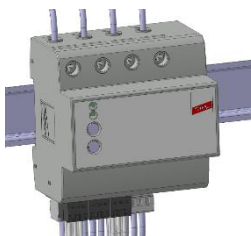
DEHNrecord SD - safety, installation and warning instructions



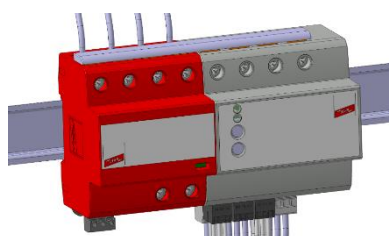
The assembly of a **DEHNrecord SD** device may only be carried out by a qualified **electrician!**
 National and regional regulations and safety regulations (DIN VDE 0105-100) must be observed!
 The **DRC SD** device must be checked for external damage before installation! If damage or any other defect is found the DRC SD recording device must not be installed!
 The **DRC SD** recording device may only be used under the conditions specified and shown in these instructions for use and assembly!
 If loads exceed the stated values, the **DRC SD** recording device and the electrical equipment which is connected to it may be destroyed!
Tampering with and modifications to the DRC SD device will void the warranty!



The DRC SD measuring and recording device has been developed in accordance with the applicable standards and directives!
 However, the current device is a **development sample without full CE certification!** The risk of malfunction and damage through using or operating the device is the sole responsibility of the operator!
 In order to minimise the risk of injury to persons and damage to the system, the measures listed must be observed!



As a stand-alone-device, a DRC SD may/can be installed with a nominal voltage of up to **300V** (phase to neutral conductor) with **overvoltage category III!**



Together with a surge protection device (SPD) **and** connected by a comb rail, an application up to **300V** and **overvoltage category IV** can be carried out under the following conditions:
 The SPD **must** have a defect indicator and a protection level of <4kV!
 In the **event of SPD failure, the DRC SD and the devices connected to it** must not be operated, disconnected or plugged in! **The SPD must first be replaced or activated!**

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The **current sensors**, DRC SD RCS/ICS, may only be **connected** to the DRC SD device when **disconnected**!

The safety regulations must be observed and adhered to!

The connections of the current sensors are **not separated from the voltage measuring inputs**, therefore the 300V CAT III rated voltage and category must also apply to these!



Only expressly approved accessories may be used in conjunction with a DRC SD!

When connecting, it is essential to observe the terminals, cover and polarity!

Connecting non-approved accessories or improper operation/connection can result in **damage** to the device and pose a **life-threatening risk** to the user!



Access to the **DEHNcloud** is not mandatory; the **DRC SD device** can also be connected to a user cloud (observe MQTT data structure!) or operated without cloud connection via Modbus. However, connection to the **DEHNcloud** is necessary for firmware updates to the device!

Full functionality as described in this manual will only be possible through ongoing updates!



A power supply unit with secure isolation (SELV ) must be used to provide the **DRC SD 2 1** with a 24V_{DC} supply!

The polarity must be observed when connecting! However, the supply input is protected against reverse polarity!



The connection cables used for the connections must be designed in accordance with the ambient conditions (temperature and voltage (SELV))!



The device must not be disposed of with household or commercial waste!

The devices must be returned to the manufacturer!