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DK 7979.713

# RCM measurement module – Inline Meter

State: 13/05/2026 (Source: [rittal.com/ro-ro](http://rittal.com/ro-ro))

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FRIEDHELM LOH GROUP



# DK 7979.713 - RCM measurement module – Inline Meter

Autonomous energy metering unit (including differential current monitoring) in a 1 U/19" form factor. The unit is incorporated into the supply lead to the equipment, a PDU basic or a modular PDU without measurement function. All key electrical characteristics are logged.

## Features

|                     |  |
|---------------------|--|
| Model No.           | DK 7979.713  |
| Design              | 16 A / three-phase   |
| Product description | Autonomous energy metering unit (including differential current monitoring) in a 1 U/19" form factor. The unit is incorporated into the supply lead to the equipment, a PDU basic or a modular PDU without measurement function. All key electrical characteristics are logged in the same way as with a PDU metered. Additionally, the measurement module features an integral differential current measurement (type B) for fault current monitoring of the connected equipment. Consumption data is conveniently retrieved via a network interface or locally via a TFT display. Additionally, all the PDU metered interfaces, e.g. for connecting external sensors and smart handle systems, are available.  |
| Benefits            | <p>The ideal solution for upgrading existing installations which lack modern measurement functions</p> <p>Includes differential current measurement/fault current monitoring</p> <p>Extensive measuring functions (as for PDU metered)</p> <p>Versions with connection cable and CEE connectors, ready to use immediately</p> <p>Fast upgrade, installation only requires a brief interruption to operation</p> <p>Compact 1 U 482.6 mm (19") enclosure with pre-assembled connection cables</p> <p>High degree of measurement accuracy (typically <math>\pm 1\%</math>)</p> <p>Energy-efficient design, minimal inherent power consumption</p> <p>Acoustic alarm may be set if certain limits are exceeded (such as fault currents)</p> <p>Integral GbE interface with web server for autonomous operation without other components</p> |
| Material            | Extruded aluminium section, anodised   |

# Features

|                                       |   |
|---------------------------------------|---|
| General colour                        | RAL 9005  |
| Colour                                | RAL 9005  |
| Options                               | CMC III CAN bus sensors may be connected for ambient monitoring, max. 16 sensors  |
| Power consumption                     | 11 kW   |
| Type of electrical connection         | CEE connector/coupling  |
| Phases per infeed                     | 3~  |
| Rated current (max.)                  | 16 A  |
| Directives                            | Low Voltage Directive 2014/35/EU<br>EMC Directive 2014/30/EU  |
| Standards                             | EN 62368-1<br>EN 61000-4<br>EN 61000-6<br>EN 55 022   |
| Dimensions                            | Width: 450 mm<br>Height: 144 mm<br>Depth: 44 mm   |
| Interfaces                            | Fully redundant Ethernet interface 10/100/1000 Mbit/s (2x RJ45, 1x with PoE)<br>USB 2.0 port (USB-A) for mass configuration, firmware updates & data logging<br>CAN bus interface (RJ 45) for a maximum of 16 ambient sensors<br>Serial interface RS232 (RJ12) for LTE unit, scripting, CLI<br>Use of own certificates/TLS 1.2<br>E-mail forwarding in case of alarm (SMTP)<br>User administration including rights management<br>LDAP(S)/Radius/Active Directory connection<br>Syslog server connection (max. 2 servers) |
| Input cable connection (type/length)  | H05VV-F5G2.5, 2 m   |
| Output cable connection (type/length) | H05VV-F5G2.5, 1,2 m   |
| Packs of                              | 1 pc(s).  |
| Net weight                            | 3,2 kg  |

# Features

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|                       |   |
|-----------------------|---|
| Gross weight          | 3,7 kg  |
| Customs tariff number | 85369095  |
| ETIM 9                | EC002762  |
| ECLASS 8.0            | 27060402  |
| Product description   | DK RCM measuring module – inline meter, autonomous energy acquisition unit, for PDU basic or modular PDU without measuring functions, 1 U, 482.6 mm (19"), incl. sensor interface, rated power: 11.0 kW, rated current: 16 A, 3~, connection type: CEE connector/ coupling, connection cable / length: H05VV F5G2.5 / 1 m, extruded aluminium section, anodised, RAL 9005 |

# Approvals

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|              |   |
|--------------|---|
| Approvals    | Cyber Security Certificate<br>TÜV-tested safety |
| Explanations | Declaration of conformity                       |