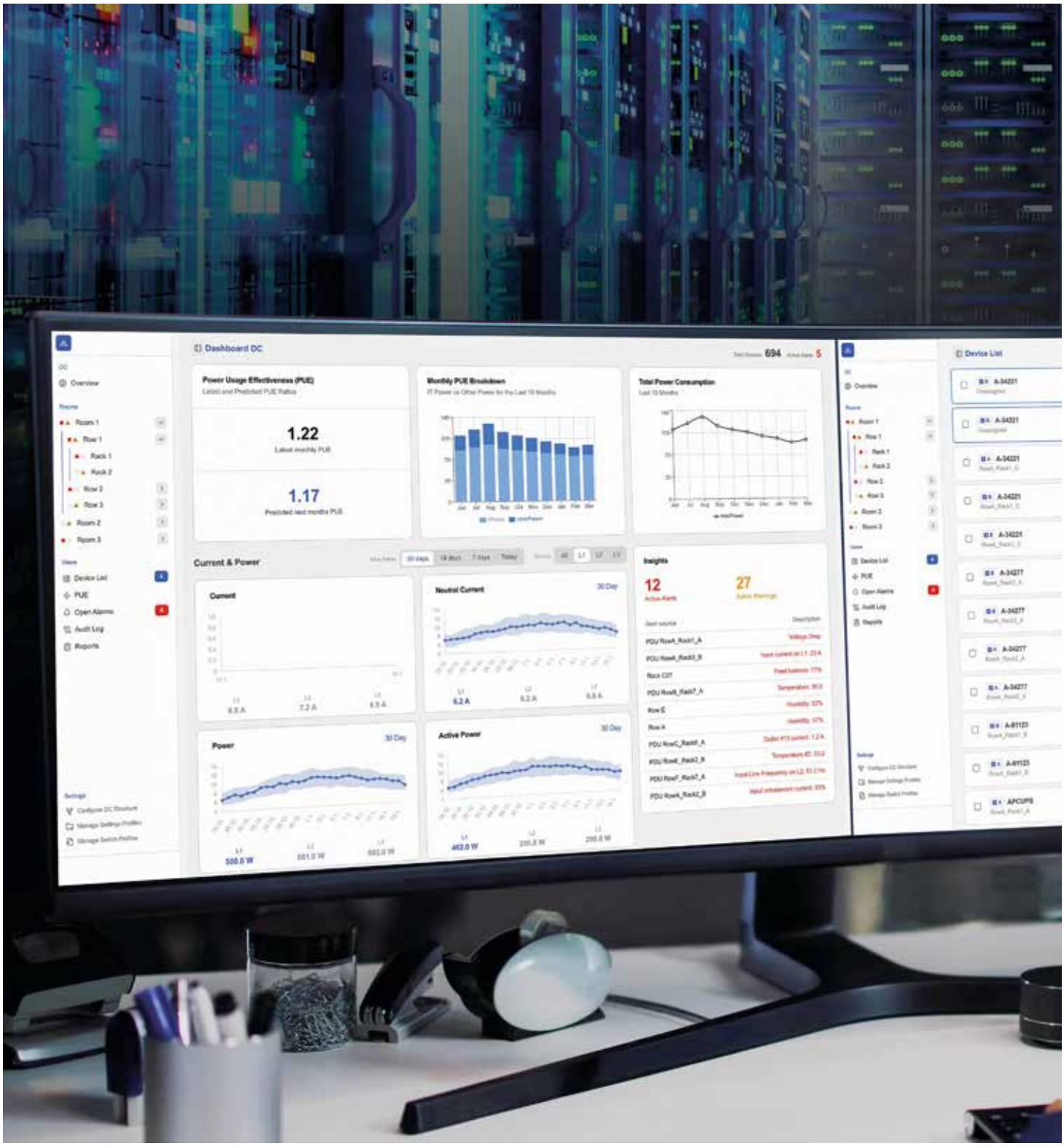
knürr
World of control rooms

CONTROL ROOM SOLUTIONS BOOK

2025 / EN-V1

KNÜRR® CEC - CONSOLE ENVIRONMENT CONTROL

193 bis 206



KNÜRR® CEC - *CONSOLE ENVIRONMENT CONTROL*

For maximum reliability and control of your 24/7 equipment in the console

Whether in an emergency call centre, an industrial control room or a monitoring station, high-availability technology is in use around the clock everywhere. The investments required for this are considerable, and every component, from the power supply to the image output device, is crucial for the availability of the systems.

Protect your IT investments with Knürr® Console Environment Control (CEC) and maintain control and oversight at all times.

Knürr® CEC is much more than just a power supply and distribution system in the console! Equipped with a network interface, it enables remote monitoring and management as well as automatic notifications.
Knürr® CEC provides important insights into how you can improve energy efficiency in the control room while avoiding downtime.

If user-defined limits for e.g. temperature or current are exceeded, you will receive an immediate notification, allowing you to maintain a complete overview of the network of devices.

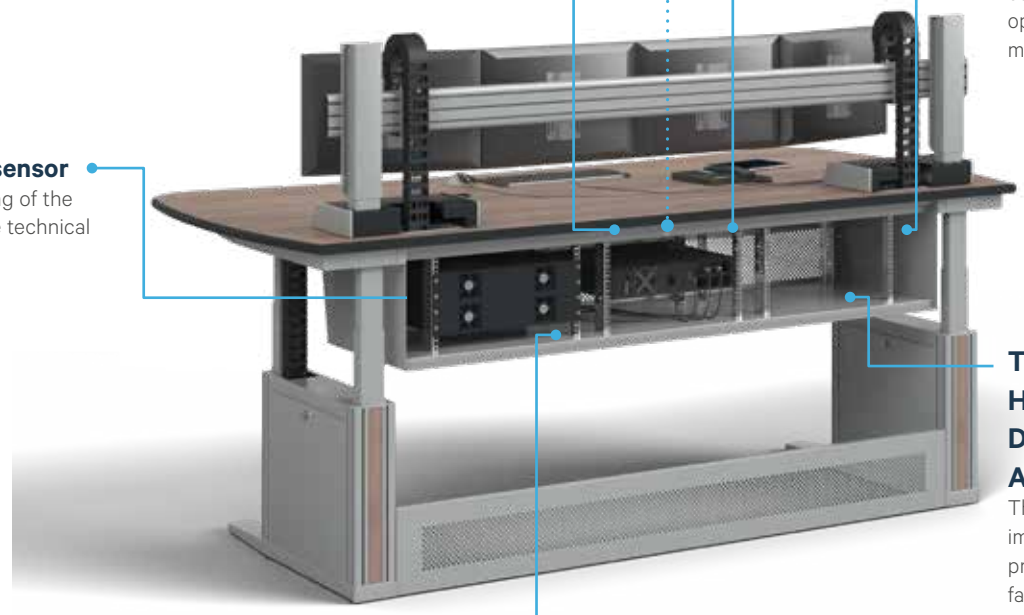
ENERGY

INTEGRATION

MONITORING & SURVEILLANCE

Knürr® CEC unit
Remote monitoring and management via integrated network interface and automatic notifications

Door position sensor
The sensor detects whether a cover on the technical area is open or closed. E.g. during maintenance work.



Temperature sensor
For easy monitoring of the temperature in the technical area

Temperature/ Humidity/ Dew point/ Air flow
The sensor provides important information to prevent premature device failure due to operating conditions outside the permissible range.

Analogue-to-digital converter
enables users to connect a potential-free contact, a 0-10 V or 4-20 mA sensor to an RJ12/ plug-and-play sensor connection.

Features and Benefits

- Real-time monitoring: Alarm management, trend analysis and data analysis using Knürr® CEC management software, even across multiple locations.
- Remote display: Connection via NFC for intuitive and clear local display on site.
- External sensors: Monitor environmental conditions in the console, such as temperature, humidity, door contact and output contacts.
- Centralised management: The integration of management functions into the CEC software reduces the cost of each individual unit.
- Management software included: No additional costs for management software, as it is already included in the scope of delivery.
- Efficient networking: Daisy chaining of up to 100 CECs reduces network costs.
- Easy installation: Quick and easy installation thanks to autoscan function and mass firmware and configuration updates.
- Hot-swappable communication card (tool-free and ESD-safe): Supports various requirements for monitoring the CEC unit, either via the integrated software as a central management system or through direct integration into existing DCIM systems.

Environmental monitoring
Proactively monitor environmental conditions in the console to ensure optimal operating conditions. A variety of sensors are available to meet your requirements, including temperature, humidity, door position and more. Up to 32 sensors can be connected to a CEC unit. Additional forwarding of alarms via potential-free outputs.

Output socket
Available as either a single-phase or three-phase version

Intelligent networking
Daisy chain connection of all devices to a single IP address. Reduces deployment time with self-configuration of downstream devices.

Remote connectivity
Access the Knürr® CEC remotely via the network interface or a serial connection to monitor power consumption and configure customised alerts to prevent downtime.

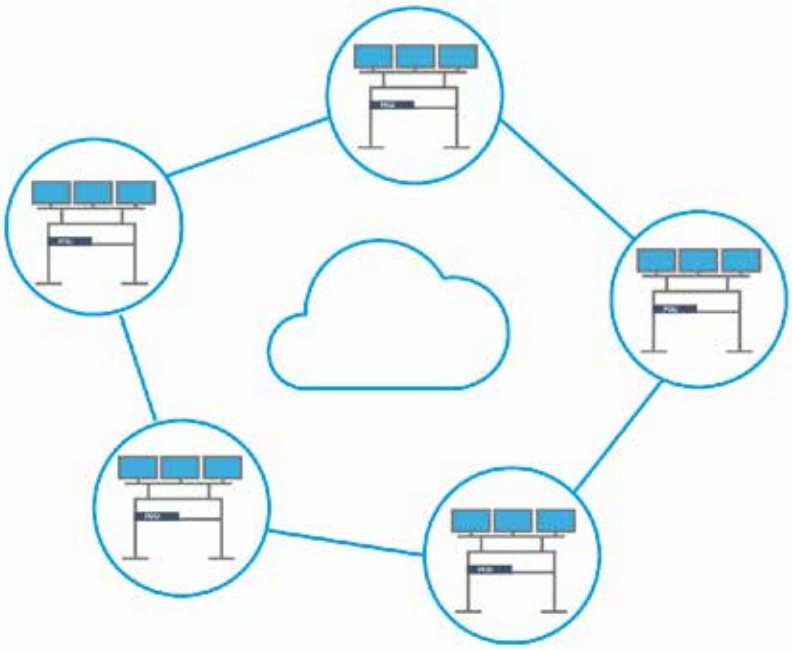
Fault-tolerant chaining
Simplifies intelligent connectivity and ensures that data is reported even if there is an interruption in the network chain.

Power monitoring with 1% accuracy
Enables precise monitoring of input and outlet level energy consumption with 1% monitoring accuracy in accordance with ANSI and IEC standards.

Knürr® CEC communication module

PLUG-N-PLAY INFRASTRUCTURE FOR CONTROL ROOMS ENABLES LIGHTNING-FAST DEPLOYMENT

- For monitored and switched units, users have the option of linking devices with a single IP address.
- Users are able to bundle data by grouping devices by console or room.
- Downstream devices configure themselves, significantly reducing deployment time.



Master | Slave 1 | Slave 2 | Slave 3 | Slave n

Convenient browser-based application

Perfect overview

Thanks to the convenient browser-based management of Knürr® CEC units, you always have an overview of the relevant values and environmental variables.

Knürr® CEC with differential current measurement

OVERVIEW

With the increasing complexity of process automation, digital control technology and 24/7 availability, the demands placed on control rooms as the heart of many safety-critical systems are growing. Just as in data centres, protection against power failures, disruptions and technical malfunctions is essential. Continuous residual current monitoring (RCM) makes a decisive contribution to this.

RCM in the control room: the basis for availability and safety

Control rooms are central hubs for industrial processes, energy supply, traffic control centres and safety-related infrastructure. They must function without disruption at all times. Continuous residual current measurement is a key tool in this regard:

- Early detection of insulation faults and leakage currents: RCM systems detect fault currents at an early stage before they can lead to equipment malfunctions, corrosion or even fires.
- Prevention of operational downtime: Instead of sudden shutdowns caused by conventional RCDs, RCM allows for targeted and plannable maintenance.
- Legal compliance: Regulations such as DIN VDE 0105-100/A1 or DIN EN 50600-2-2 increasingly require continuous monitoring, even in environments such as control rooms or switch rooms.
- Sustainability and efficiency: Permanent monitoring reduces testing costs and meets operational safety requirements..

Technical implementation: From network monitoring to preventive maintenance

RCM technology compares the electricity fed in and flowing back. Differences indicate fault currents – e.g. due to damaged cables, insulation damage or faulty consumers. These can be identified in the control room by

- Modular measuring systems,
- Connection to higher-level control technology (e.g. SCADA, BMS),
- Centralised alarm system and documentation

efficiently and centrally. This is a strategic advantage, especially for systems with high availability requirements (e.g. control centres, energy distribution, traffic control centres).

Economic advantages and strategic security

In addition to the technical necessity, RCM also offers economic and organisational advantages:

- Minimisation of unplanned downtime
- Fewer maintenance cycles thanks to targeted maintenance
- Transparency regarding power quality issues
- Reduction in insurance costs and liability risks

Conclusion: Residual current measurement is mandatory in modern control room design.

Today‘s control rooms are no longer static operating rooms – they are highly networked, safety-critical control centres. Continuous residual current monitoring is therefore standard in any future-proof infrastructure planning. RCM should be taken into account as early as the design phase – not only to comply with legal requirements, but also as a tool for safeguarding technical operations management.

Those who continuously monitor their control room technology can respond more quickly, avoid downtime and sustainably improve operational reliability.

Knürr® CEC - Inline metering

Version - Inline Metering	phases	Order-no.	UP
Knürr® CEC with 1-phase 16A Schuko (master)	1-phase	**03.800.001.9**	1 unit
Knürr® CEC with 1-phase 16A Schuko (slave)	1-phase	**03.800.002.9**	1 unit
Knürr® CEC with 1-phase 16A Schuko (master) with RCM	1-phase	**03.800.003.9**	1 unit
Knürr® CEC with 1-phase 16A Schuko (slave) with RCM	1-phase	**03.800.004.9**	1 unit

KNÜRR® CEC - *INLINE METERING 1-PHASE*

Model	CEC Master 1ph	CEC Slave 1ph	CEC Master 1ph RCM	CEC Slave 1ph RCM
Order-no.	03.800.001.9	03.800.002.9	03.800.003.9	03.800.004.9
Standard information	**Input values:** 1ph, 16 A, 230 V AC, 50 Hz 1x CEE7/3 Schuko type F **Supply cable:** 3 m (Schuko) 16 A plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD;	**Input values:** 1ph, 16 A, 230 V AC, 50 Hz 1x CEE7/3 Schuko type F **Supply cable:** 3 m (Schuko) 16 A plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD;	**Input values:** 1ph, 16 A, 230 V AC, 50 Hz 1x CEE7/3 Schuko type F **Supply cable:** 3 m (Schuko) 16 A plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD; **with residual current measurement RCM type B;**	**Input values:** 1ph, 16 A, 230 V AC, 50 Hz 1x CEE7/3 Schuko type F **Supply cable:** 3 m (Schuko) 16 A plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD; **with residual current measurement RCM type B;**
Communication module	**Controller module,** tool-free replacement during operation; integrated web interface for monitoring and management Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;	**Daisy chain module,** tool-free replacement during operation; for connection to a controller or gateway module Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;	**Controller module,** tool-free replacement during operation; integrated web interface for monitoring and management Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;	**Daisy chain module,** tool-free replacement during operation; for connection to a controller or gateway module Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;
Supported network protocols	Embedded SSL Security (HTTPS), IPv4, IPv6, DHCP, DNS, HTTP, HTTPS, SSL, SNMP v1/2c/3, SNMP TRAPs, Modbus/TCP, REST-API, NTP, SMTP, WebSocket, Syslog, Command Line; Data export to MS SQL, MySQL and MariaDB	None, as network connection is only possible via gateway or controller module	Embedded SSL Security (HTTPS), IPv4, IPv6, DHCP, DNS, HTTP, HTTPS, SSL, SNMP v1/2c/3, SNMP TRAPs, Modbus/TCP, REST-API, NTP, SMTP, WebSocket, Syslog, Command Line; Data export to MS SQL, MySQL and MariaDB	None, as network connection is only possible via gateway or controller module
Connectivity	Data bus: 2xRJ45 daisy chain; Ethernet: RJ45; Sensor port: 2 x USB	Datenbus: 2xRJ45-Daisy-Chain; Sensoranschluss: 2 x USB	Data bus: 2xRJ45 daisy chain; Ethernet: RJ45; Sensor port: 2 x USB	Datenbus: 2xRJ45-Daisy-Chain; Sensoranschluss: 2 x USB
Mounting bracket	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U
Management type	Input Metered	Input Metered	Input Metered	Input Metered
Differential current measurement	No	No	Yes; self-test every 6 hours; measurement of: DC, pulsed DC and AC up to 1 kHz (effective value)	Yes; self-test every 6 hours; measurement of: DC, pulsed DC and AC up to 1 kHz (effective value)
Power output Sockets	1x CEE 7/3 (type F) (Schuko)	1x CEE 7/3 (type F) (Schuko)	1x CEE 7/3 (type F) (Schuko)	1x CEE 7/3 (type F) (Schuko)

Version - Inline Metering	phases	Order-no.	UP
Knürr® CEC mit 3-Phasen 16A Schuko (Master)	3-Phasen	**03.800.005.9**	1 unit
Knürr® CEC mit 3-Phasen 16A Schuko (Slave)	3-Phasen	**03.800.006.9**	1 unit
Knürr® CEC mit 3-Phasen 16A Schuko (Master) mit RCM	3-Phasen	**03.800.007.9**	1 unit
Knürr® CEC mit 3-Phasen 16A Schuko (Slave) mit RCM	3-Phasen	**03.800.008.9**	1 unit

KNÜRR® CEC - *INLINE METERING 3-PHASEN*

Model	CEC Master 3ph	CEC Slave 3ph	CEC Master 3ph RCM	CEC Slave 3ph RCM
Order-no.	**03.800.005.9**	**03.800.006.9**	**03.800.007.9**	**03.800.008.9**
Standard information	**Input values:** 3ph, 16 A, 230/400 V AC, 50 Hz: **Output:** 3 x CEE 7/3 (Schuko, type F) 1ph, 16A, 230 V AC, 50 Hz **Supply cable:** 3 m 5G2.5 mm² with open end, without plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD;	**Input values:** 3ph, 16 A, 230/400 V AC, 50 Hz: **Output:** 3 x CEE 7/3 (Schuko, type F) 1ph, 16A, 230 V AC, 50 Hz **Supply cable:** 3 m 5G2.5 mm² with open end, without plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD;	**Input values:** 3ph, 16 A, 230/400 V AC, 50 Hz: **Output:** 3 x CEE 7/3 (Schuko, type F) 1ph, 16A, 230 V AC, 50 Hz **Supply cable:** 3 m 5G2.5 mm² with open end, without plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD; **with residual current measurement RCM type B;**	**Input values:** 3ph, 16 A, 230/400 V AC, 50 Hz: **Output:** 3 x CEE 7/3 (Schuko, type F) 1ph, 16A, 230 V AC, 50 Hz **Supply cable:** 3 m 5G2.5 mm² with open end, without plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD; **with residual current measurement RCM type B;**
Communication module	**Controller module,** tool-free replacement during operation; integrated web interface for monitoring and management Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;	**Daisy chain module,** tool-free replacement during operation; for connection to a controller or gateway module Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;	**Controller module,** tool-free replacement during operation; integrated web interface for monitoring and management Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;	**Daisy chain module,** tool-free replacement during operation; for connection to a controller or gateway module Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;
Supported network protocols	Embedded SSL Security (HTTPS), IPv4, IPv6, DHCP, DNS, HTTP, HTTPS, SSL, SNMP v1/2c/3, SNMP Trap, Modbus TCP, IPAPI, NTP, SMTP, WebSocket, Syslog, SSH Command Line Interface. Data export to MySQL and SQL Server	None, as network connection is only possible via gateway or controller module	Embedded SSL Security (HTTPS), IPv4, IPv6, DHCP, DNS, HTTP, HTTPS, SSL, SNMP v1/2c/3, SNMP Trap, Modbus TCP, IPAPI, NTP, SMTP, WebSocket, Syslog, SSH Command Line Interface. Data export to MySQL and SQL Server.	None, as network connection is only possible via gateway or controller module
Connectivity	Data bus: 2xRJ45 daisy chain; Ethernet: RJ45; Sensor port: 2 x USB	Datenbus: 2xRJ45-Daisy-Chain; Sensoranschluss: 2 x USB	Datenbus: 2xRJ45-Daisy-Chain; Ethernet: RJ45; Sensoranschluss: 2 x USB inkl.	Datenbus: 2xRJ45-Daisy-Chain; Sensoranschluss: 2 x USB
Mounting bracket	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U
Management type	Input Metered	Input Metered	Input Metered	Input Metered
Differential current measurement	No	No	Yes; self-test every 6 hours; measurement of: DC, pulsed DC and AC up to 1 kHz (effective value)	Yes; self-test every 6 hours; measurement of: DC, pulsed DC and AC up to 1 kHz (effective value)
Power output Sockets	3x CEE 7/3 (type F) (Schuko)	3x CEE 7/3 (type F) (Schuko)	3x CEE 7/3 (type F) (Schuko)	3x CEE 7/3 (type F) (Schuko)

Knürr® CEC – Inline metering with measurement and switching per output

Version - Inline metering with measurement and switching per output	phases	Order-no.	UP
Knürr® CEC with 1-phase 16A Schuko (master)	1-phase	**03.800.011.9**	1 unit
Knürr® CEC with 1-phase 16A Schuko (slave)	1-phase	**03.800.012.9**	1 unit
Knürr® CEC with 1-phase 16A Schuko (master) with RCM	1-phase	**03.800.013.9**	1 unit
Knürr® CEC with 1-phase 16A Schuko (slave) with RCM	1-phase	**03.800.014.9**	1 unit

KNÜRR® CEC – INLINE METERING WITH MEASUREMENT AND SWITCHING PER OUTPUT – 1-PHASE

Model	CEC master 1ph switchable	CEC slave 1ph switchable	CEC master 1ph switchable, with RCM	CEC Slave 1ph switchable, with RCM
Order-no.	**03.800.011.9**	**03.800.012.9**	**03.800.013.9**	**03.800.014.9**
Standard information	**Input values:** 1ph, 16 A, 230 V AC, 50 Hz1x CEE7/3 Schuko type F **Supply cable:** 3m (Schuko) 16A plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD;	**Input values:** 1ph, 16 A, 230 V AC, 50 Hz1x CEE7/3 Schuko type F **Supply cable:** 3m (Schuko) 16A plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD;	**Input values:** 1ph, 16 A, 230 V AC, 50 Hz1x CEE7/3 Schuko type F **Supply cable:** 3 m (Schuko) 16 A plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD; **with residual current measurement RCM type B;**	**Input values:** 1ph, 16 A, 230 V AC, 50 Hz1x CEE7/3 Schuko type F **Supply cable:** 3 m (Schuko) 16 A plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD; **with residual current measurement RCM type B;**
Communication module	**Controller module,** tool-free replacement during operation; integrated web interface for monitoring and management Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;	**Daisy chain module,** tool-free replacement during operation; for connection to a controller or gateway module Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;	**Controller module,** tool-free replacement during operation; integrated web interface for monitoring and management Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;	**Daisy chain module,** tool-free replacement during operation; for connection to a controller or gateway module Display: Remote display wireless (via NFC app), Android or iOS LED ring light for status display and warning;
Supported network protocols	Embedded SSL Security (HTTPS), IPv4, IPv6, DHCP, DNS, HTTP, HTTPS, SSL, SNMP v1/2c/3, SNMP TRAPs, Modbus/TCP, REST-API, NTP, SMTP, WebSocket, Syslog, Command Line; Data export to MS SQL, MySQL and MariaDB	None, as network connection is only possible via gateway or controller module	Embedded SSL Security (HTTPS), IPv4, IPv6, DHCP, DNS, HTTP, HTTPS, SSL, SNMP v1/2c/3, SNMP TRAPs, Modbus/TCP, REST-API, NTP, SMTP, WebSocket, Syslog, Command Line; Data export to MS SQL, MySQL and MariaDB	None, as network connection is only possible via gateway or controller module
Connectivity	Data bus: 2xRJ45 daisy chain; Ethernet: RJ45; Sensor port: 2 x USB	Data bus: 2xRJ45 daisy chain; Sensor connection: 2 x USB	Data bus: 2xRJ45 daisy chain; Ethernet: RJ45; Sensor port: 2 x USB	Data bus: 2xRJ45 daisy chain; Sensor port: 2 x USB
Mounting bracket	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U
Management type	Switched	Switched	Switched	Switched
Differential current measurement	No	No	Yes; self-test every 6 hours; measurement of: DC, pulsed DC and AC up to 1 kHz (effective value)	Yes; self-test every 6 hours; measurement of: DC, pulsed DC and AC up to 1 kHz (effective value)
Power output Sockets	1x CEE 7/3 (type F) (Schuko)	1x CEE 7/3 (type F) (Schuko)	1x CEE 7/3 (type F) (Schuko)	1x CEE 7/3 (type F) (Schuko)

Version - Inline metering with measurement and switching per output	phases	Order-no.	UP
Knürr® CEC with 3-phase 16A Schuko (master)	3-phase	**03.800.015.9**	1 unit
Knürr® CEC with 3-phase 16A Schuko (slave)	3-phase	**03.800.016.9**	1 unit
Knürr® CEC with 3-phase 16A Schuko (master) with RCM	3-phase	**03.800.017.9**	1 unit
Knürr® CEC with 3-phase 16A Schuko (slave) with RCM	3-phase	**03.800.018.9**	1 unit

KNÜRR® CEC – INLINE METERING WITH MEASUREMENT AND SWITCHING PER OUTPUT – 3-PHASE

Model	CEC master 3ph switchable	CEC slave 3-phase switchable	CEC master 3ph switchable, with RCM	CEC slave 3-phase switchable, with RCM
Order-no.	**03.800.015.9**	**03.800.016.9**	**03.800.017.9**	**03.800.018.9**
Standard information	**Input values:** 3ph, 16 A, 230/400 V AC, 50 Hz: Output: 3 x CEE 7/3 (Schuko, type F) 1ph, 16A, 230 V AC, 50 Hz **Supply cable:** 3 m 5G2.5 mm² with open end, without plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD;	**Input values:** 3ph, 16 A, 230/400 V AC, 50 Hz: Output: 3 x CEE 7/3 (Schuko, type F) 1ph, 16A, 230 V AC, 50 Hz **Supply cable:** 3 m 5G2.5 mm² with open end, without plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD;	**Input values:** 3ph, 16 A, 230/400 V AC, 50 Hz: **Output:** 3 x CEE 7/3 (Schuko, type F) 1ph, 16A, 230 V AC, 50 Hz **Supply cable:** 3 m 5G2.5 mm² with open end, without plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD; **with residual current measurement RCM type B;**	**Input values:** 3ph, 16 A, 230/400 V AC, 50 Hz: **Output:** 3 x CEE 7/3 (Schuko, type F) 1ph, 16A, 230 V AC, 50 Hz **Supply cable:** 3 m 5G2.5 mm² with open end, without plug Integrated function for measuring voltage, current, reactive, apparent and active power, frequency, power factor, crest factor, THD; **with residual current measurement RCM type B;**
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Connectivity	Data bus: 2xRJ45 daisy chain; Ethernet: RJ45; Sensor port: 2 x USB	Data bus: 2xRJ45 daisy chain; Sensor port: 2 x USB	Data bus: 2xRJ45 daisy chain; Ethernet: RJ45; Sensor port: 2 x USB	Data bus: 2xRJ45 daisy chain; Sensor port: 2 x USB
Mounting bracket	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U	19" mounting bracket, installation height 1.5 U
Management type	Switched	Switched	Switched	Switched
Differential current measurement	No	No	Yes; self-test every 6 hours; measurement of: DC, pulsed DC and AC up to 1 kHz (effective value)	Yes; self-test every 6 hours; measurement of: DC, pulsed DC and AC up to 1 kHz (effective value)
Power output Sockets	3x CEE 7/3 (type F) (Schuko)	3x CEE 7/3 (type F) (Schuko)	3x CEE 7/3 (type F) (Schuko)	3x CEE 7/3 (type F) (Schuko)

Integration of environmental sensors for proactive monitoring of critical infrastructure

Temperature sensor

Temperature measurement
Measuring range: 0 °C–70 °C
Measuring accuracy: +/- 1 %

	Order-no.	UP
	03.800.021.9	1 unit

Temperature and humidity sensor

Temperature measurement, humidity measurement
Measuring range: 0 °C–70 °C (temp) / 0–100% rel. (hum)
Measuring accuracy: +/- 1% (temp) / +/- 5% (hum)

	Order-no.	UP
	03.800.022.9	1 unit

Input sensor

2 digital input contacts for connecting a door contact.
Also suitable for other devices (status monitoring).

	Order-no.	UP
	03.800.023.9	1 unit

Input / Output sensor

4 digital input contacts. 2 output contacts.
Use as potential-free outputs.

	Order-no.	UP
	03.800.024.9	1 unit

USB connection cable

For connecting the CEC unit to the first sensor.
USB-A to USB-C (lockable).

	Order-no.	UP
	03.800.025.9	1 unit

Note: The individual sensors are connected to each other using standard network cables (CAT6). These are not included in the scope of delivery and must be ordered separately in the desired length.

Door contact sensor

The door contact sensor detects when a door or cabinet is open or closed. The magnetic bridge sensor responds to any magnetically conductive material (no special counterpart required). Can also be used to monitor side panels.

Length	Order-no.	UP
4 m	06.108.115.9	1 unit


GATEWAY
DATABUS
ETHERNET
USB-A
NFC
B1
L1
16A

STANDARD WARRANTY

12 months statutory warranty within the scope of the published General Terms and Conditions.
https://www.knuerr.com/en/imprint-privacy-policy

Service Benefits:
- Helpdesk availability during regular office hours
- Spare parts after return for repair by Knürr
- On-site exchange and repair on request

ESSENTIAL CARE

Warranty extension to **24 months** per console table.
Statutory warranty within the scope of the published General Terms and Conditions.
https://www.knuerr.com/en/imprint-privacy-policy

Service Benefits:
- Helpdesk availability during regular office hours
- Spare parts free of charge in advance
- On-site replacement and repair by agreement

FULL CARE

Warranty extension to **5 years** per console table.
https://www.knuerr.com/en/imprint-privacy-policy

Service Benefits:
- Helpdesk Availability during regular office hours
- On-site replacement and repair by agreement
- Preventive service: Annual maintenance by Knürr
  - System diagnosis and software update if necessary
  - Check of the entire lifting mechanism
  - Check of all cables and plug connections of the console table
  - Replacement of defective components within the scope of intended use
  - Creation of a maintenance protocol

Ergonomically designed products and solutions from a single source

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