knürr
World of control rooms

KNÜRR® CONSOLES

Knürr® CEC - Console Environment Control
2024

KNÜRR® CEC - *CONSOLE ENVIRONMENT CONTROL*

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

Whether in the emergency call centre, in the industrial control room or in the surveillance control room, high-availability technology is in use everywhere around the clock. The investments 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 the Knürr® Console Environment Control (CEC) and always maintain control and an overview.

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

If user-defined limit values for e.g. temperature or current are exceeded, you immediately receive a notification and thus maintain a complete overview in the network of devices.

POWER

INTEGRATION

MONITORING & SURVEILLANCE

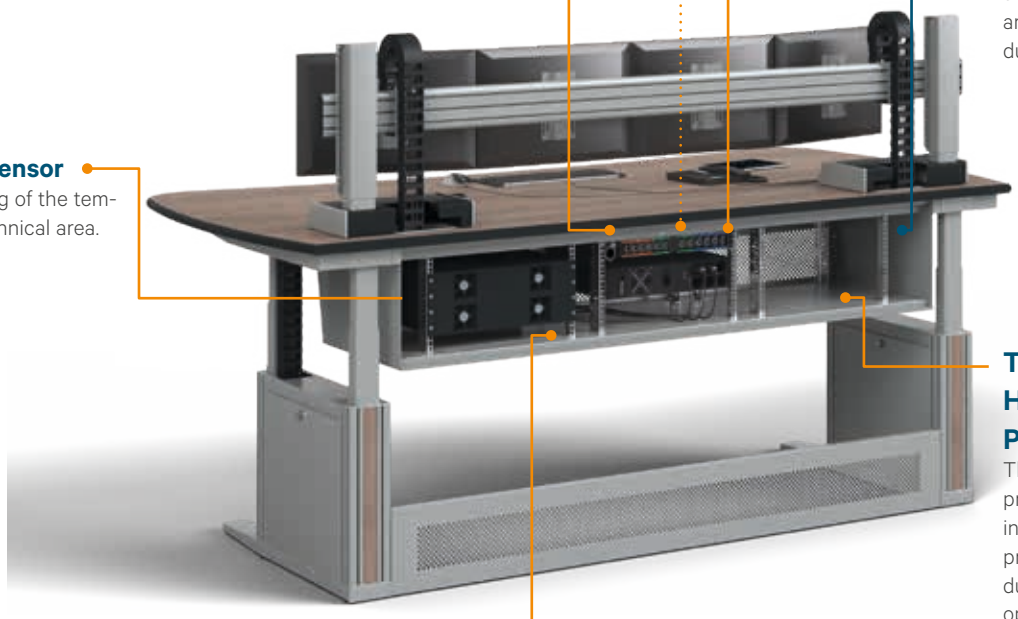
Device Director

Device Director is a comprehensive, Windows-based utility that is used to install, configure and maintain multiple Knürr® CEC devices within a single interface.

Device Director helps you set the IP addresses of multiple devices, configure user accounts, modify network settings, update firmware, export/import configuration settings and validate device connectivity.

Device Director provides you with a powerful and simple way to configure the devices and effectively reduce setup time and maintenance costs.

- Automatic detection in the network
- Mass configuration of device and network settings
- Bulk firmware updates



Knürr® CEC Unit
Remote monitoring and management through integrated network interface and automatic notifications.

Door Position
The RDPS detects whether a panelling of 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/ Airflow
The RTAFHD3 sensor provides important information to prevent premature unit failure due to out-of-range operating conditions.

Analog-to-Digital Converter
allows users to connect a dry contact, 0-10V, or 4-20mA sensor to an RJ12/ Plug-n-Play sensor port.

Environmental Monitoring
Proactively monitor environmental conditions in the console to ensure optimal operating conditions. A variety of sensors are available to meet your needs, including temperature, humidity, airflow, door position and more.

Remote Connectivity
Access the Knürr® CEC remotely via the network interface or a serial connection to monitor power consumption and configure custom alerts to avoid downtime.

Fault-Tolerant Daisy Chaining
Simplifies intelligent connectivity and ensures data is reported even when a break in the network chain occurs.

Combination Outlet C13 / C19
Both C14 (10A) and C20 (16A) IEC plugs can be plugged into the combination socket.

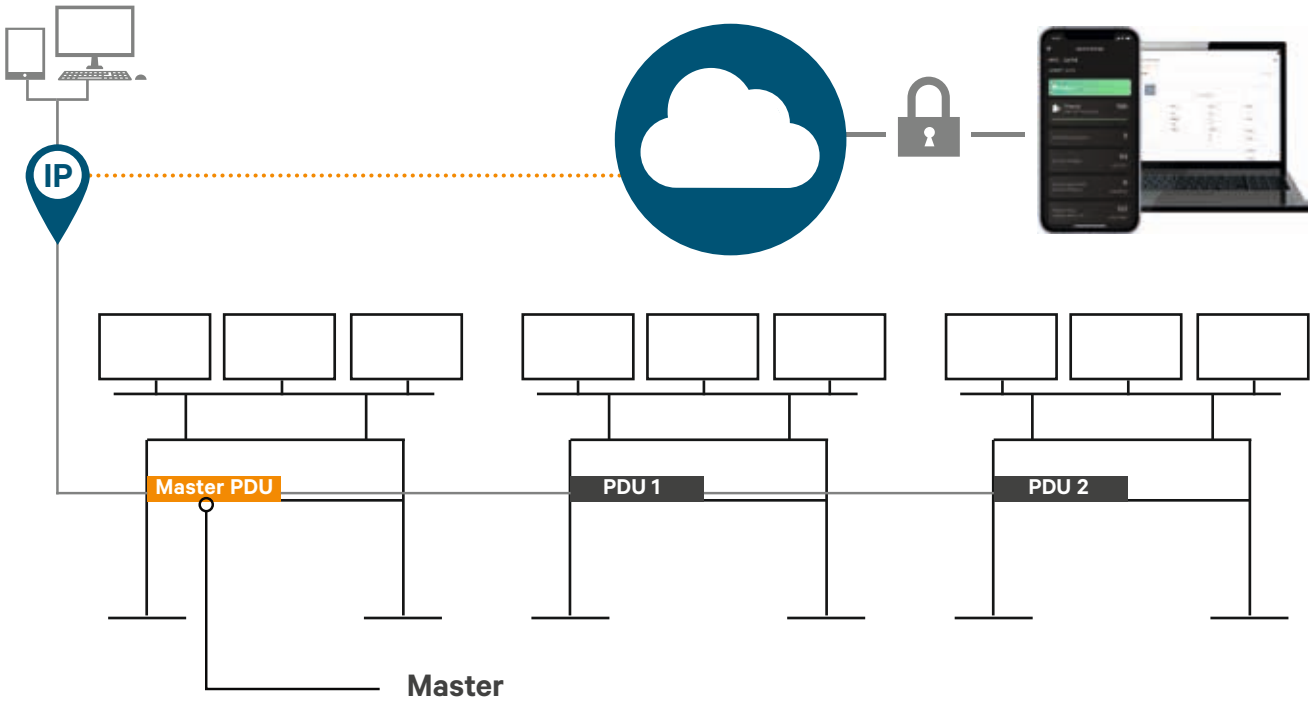
Power Monitoring 1% accuracy
Allows to accurately monitor input and outlet level power usage with 1% monitoring accuracy tested to ANSI and IEC standards.

U-Lock
Secure power cords and avoid accidental disconnections. Receptacles are color-coded by circuit for instant identification.

Vertiv™ Intelligence Director
Daisy-chain up to 50 devices on a single IP address. Reduce deployment time with self-configuration of downstream devices.

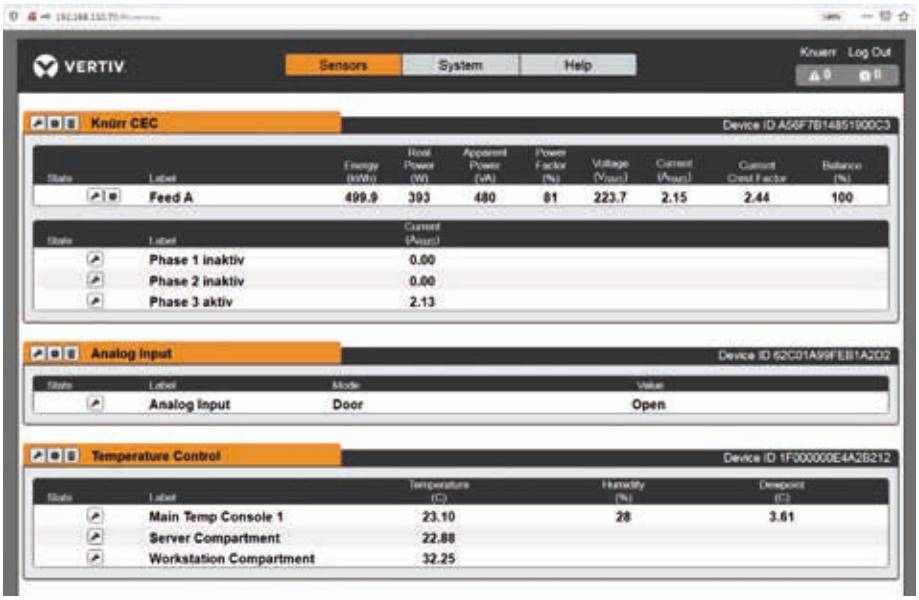
Knürr CEC Intelligence Director

PLUG-N-PLAY INFRASTRUCTURE FOR CONTROL ROOMS ENABLES A LIGHTNING-FAST READY



- On Monitored and Switched units, users have the ability to daisy chain up to 50 devices with a single IP address.
- Users are able to bundle data by grouping devices by console or room.
- Downstream devices self-configure, significantly reducing deployment time.

Convenient browser-based application



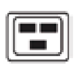
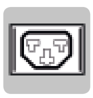
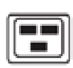
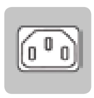
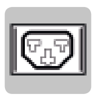
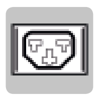
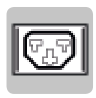
Perfect overview

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

Knürr CEC – Console Environment Control

OVERVIEW

SINGLE PHASE MONITORED	3 PHASE MONITORED	3 PHASE SWITCHED
		

System Features	UR30200	UI30027L	GR30200	GS30200	GU30200
Monitoring	Input and Outlet power monitoring. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.	Input power monitoring. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.	Input and Outlet power monitoring with Outlet switching. Circuit/ Breaker current monitoring. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.	Input power monitoring with Outlet switching. Circuit/ Breaker current monitoring. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.	Input and Outlet power monitoring with Outlet switching. Circuit/Breaker current monitoring. Environmental monitoring via optional remote sensors. Daisy chain Ethernet connectivity. Local high visibility LED display.
Input Monitoring	Phase (A) Monitoring (kWh, W, VA, PF, V, A) Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements	Phase (A) Monitoring (kWh, W, VA, PF, V, A) Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements	Total Unit Monitoring (kWh, W, VA, PF) Phase (A, B, C) Monitoring (kWh, W, VA, PF, V, A) Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements	Total Unit Monitoring (kWh, W, VA, PF) Phase (A, B, C) Monitoring (kWh, W, VA, PF, V, A) Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements	Total Unit Monitoring (kWh, W, VA, PF) Phase (A, B, C) Monitoring (kWh, W, VA, PF, V, A) Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements
Outlet Monitoring	Outlet Monitoring (kWh, W, VA, PF, V, A) Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements.	–	Outlet Monitoring (kWh, W, VA, PF, V, A) Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements.	–	Outlet Monitoring (kWh, W, VA, PF, V, A) Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements.
Voltage	100-240V	100-240V	200-240/346-415V WYE	200-240/346-415V WYE	200-240/346-415V WYE
Current	16A or 20A	16A or 20A	16A x 3 Phase WYE	16A x 3 Phase WYE	16A x 3 Phase WYE
Power Cable Wire Gauge and Lenght	Cord sold separately	Cord sold separately	2.5mm² H07RN-F 10ft / 3m	2.5mm² H07RN-F 10ft / 3m	2.5mm² H07RN-F 10ft / 3m
Plug Type	IEC60320 C20 Power Inlet (cord sold separately)	IEC60320 C20 Power Inlet (cord sold separately)	IEC60309 3P + N + E, 16A, 230/400V, Splashproof IP44	IEC60309 3P + N + E, 16A, 230/400V, Splashproof IP44	IEC60309 3P + N + E, 16A, 230/400V, Splashproof IP44
	Plug Form:  C20 **Receptacle:**  Combination C13/C19 (Quantity: 12)	**Plug Form:**  C20 Inlet **Receptacle:**  Locking IEC C13 (Quantity: 10)	**Plug Form:**  3P+N+E (IP44) **Receptacle:**  Combination C13/C19 (Quantity: 12)	**Plug Form:**  3P+N+E (IP44) **Receptacle:**  Combination C13/C19 (Quantity: 12)	**Plug Form:**  3P+N+E (IP44) **Receptacle:**  Combination C13/C19 (Quantity: 12)
Item number	UR30200	UI30027L	GR30200	GS30200	GU30200

Dimensions in mm: W = Width, H = Height, D = Depth, h = Installation height, d = Useful depth, L = Length, HU = Standard height unit, 1 HU = 44.45 mm, 19"= 482.6 mm, (ideal for 19" components in acc. with DIN 41494), UP = Unit of packaging

Conversion: 1 inch = 25,4 mm

Integrate Environmental Sensors to Pro-actively Monitor Critical Infrastructure

Temperatur — SRT

The SRT is an easy-to-install external temperature sensor great for monitoring a variety of areas, such as; A/C inlet, A/C outlet, ambient room temperature, hot spots, and internal cabinet temperature. The SRT is available in a variety of cable lengths. Contact a Vertiv sales representative for a full list of temperature sensor options.

Length	Order no.	UP
3.6 m (also available in 6m or 15m)	**SRT-12**	1 unit

Temperature/ Humidity/ Dew Point/ Airflow — RTAFHD3

The RTAFHD3 temperature, relative humidity, dew point, and airflow sensor provides critical information to ensure equipment is receiving adequate airflow within the optimal parameters to prevent premature equipment failure due to out-of-range operating conditions.

Length	Order no.	UP
3.6 m (also available in 6m or 15m)	**RTAFHD3-12**	1 unit

Temperature/ Humidity/ Dew Point — GTHD

The GTHD sensor collects and transmits real-time temperature and relative humidity data to protect critical data center and Edge infrastructure from heat and moisture. The sensors can be daisy chained together to simplify installation.

Length	Order no.	UP
3 m	**GTHD**	1 unit

Temperature x 3/ Humidity/ Dew Point Kit — GT3HD

he GT3HD provides real-time temperature and relative humidity monitoring with additional 3ft/ .9m and 6ft/ 1.8m temperature sensors. The GT3HD is ideal for monitoring temperature at the top, middle, and bottom of a server cabinet. A supplementary input provides the ability to daisy-chain additional sensors together making it a perfect solution for monitoring a row of racks or cabinets.

Length	Order no.	UP
3 m	**GT3HD**	1 unit

Analog-to-Digital Converter — A2D

The A2D allows users to connect a dry contact, 0-10V, or 4-20mA sensor to an RJ12/ Plug-n-Play sensor port. It provides users with the flexibility to utilize a Plug-n-Play sensor port for a Dry Contact / 0-5V sensor.

Length	Order no.	UP
3 m	**A2D-10**	1 unit

Door Contact Sensor

The door contact sensor detects when a door or a cabinet is open or closed. Magnet bridge sensor works on all magnetic con-ductive materials (no special mating part required). Can also be used to monitor side panels.

Length	Order no.	UP
4 m	**06.108.115.9**	1 unit

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