

Hydrogen

Activating the power of hydrogen

Solutions für die Hydrogen Industrialisation



Weidmüller 

Activating the power of hydrogen

Weidmüller Solutions for the hydrogen industrialisation

Industrialisation plays a crucial role in reducing the cost of hydrogen production. We are convinced that our solutions make an important contribution to helping our customers achieve their industrialisation goals faster. Our comprehensive range of products and services is focused on modularisation, standardisation, plug and play, parallel workflows and supply partnerships to reduce CAPEX and increase operational efficiency.



For further products, information, technical specifications or additional services, please visit our website:
www.weidmueller.com/hydrogen

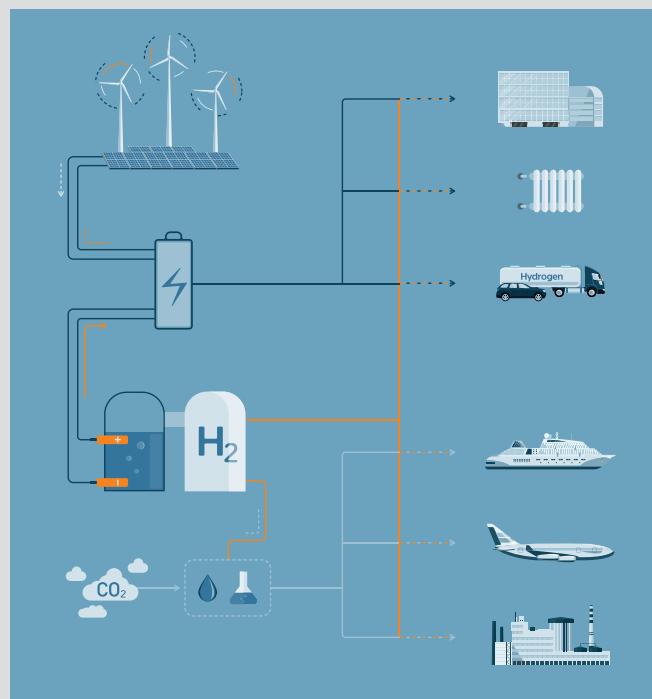


The transition to a sustainable energy landscape requires innovative concepts and our commitment to digitalisation. We utilise cutting-edge technologies, our solutions include digital databases, seamless integration with CAE tools and offer our customers rapid engineering capabilities. Our advanced software allows plants and systems to be monitored remotely in real time, enabling proactive measures to be taken to prevent potential failures. Our machine learning solutions contribute to this monitoring performance and detect problems before they escalate. This reduces OPEX and ensures smooth operations.

As we aid stakeholders in the hydrogen sector with CAPEX and OPEX reduction, we contribute to achieving a significant milestone – lowering the Levelized Cost of Hydrogen (LCOH). Weidmüller's solutions boast decades of industry experience and hold the necessary certifications, inspiring confidence, and trust among our valued clients.

Now is the right time to join forces and support the industries in their rapid growth while fighting climate change together. We all envision a green future where we reduce the carbon footprint. Our solutions are used in a wide range of applications in electrolysis, compressors, hydrogen processing, H₂ refuelling stations, H₂ gas turbines and fuel cells.

At Weidmüller, we have made it our mission to drive the hydrogen revolution and lay the foundation for a sustainable future. Let's work together to drive a functioning hydrogen economy, for a cleaner greener world, supported by Weidmüller solutions.



The Power-to-X concept

Power-to-X describes the conversion of renewable energies into hydrogen, hydrogen-based synthetic fuels and basic materials. In combination with smart energy grids, this enables the use of renewable energies such as solar and wind energy even when they are not available. Furthermore, the technology also allows use in transport sectors such as aviation and long-haul shipping, where direct use of electricity is not expected to be possible in the future.

Power-to-X is therefore seen as a key technology on the road to the energy transition in the medium and long term.

Our expertise for a decarbonised future

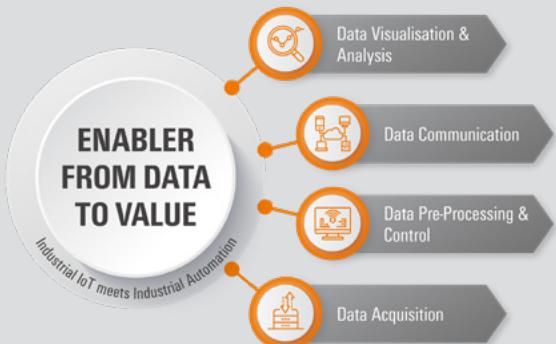
Pioneering mindset and know-how for the industrialisation

Industry Competence

- Certification Expertise
- Hazardous Area Approvals
- Engineering Competence



Our comprehensive and cutting-edge IIoT portfolio applies for both, greenfield and brownfield applications. We offer components and solutions from data acquisition, data pre-processing, data communication and data analysis. The added value is exploited in the specific use case, whether this is increasing the energy efficiency or deploying service technicians more efficiently thanks to remote maintenance. And last but not least, we enable our customers to develop new business models by using artificial intelligence.



Fast Delivery Service WMC

The Fast Delivery Service simplifies your planning, accelerates your production processes, and guarantees the delivery of individually assembled and ready-to-install terminal rails and enclosures. This way, you reduce costs, increase flexibility and stay one step ahead of your competitors. The Weidmüller Configurator (WMC) software is available for free download on our website, customers can start designing their EX or non-EX enclosures right away. WMC enables users to create custom enclosures with markers and pre-assembled rails, ensuring accuracy and efficiency in the assembly process.



www.weidmueller.com/wmc





Weidmüller Solutions for Electrolysis & Fuel Cell Stacks

Stack Condition Monitoring

Pioneering Efficiency and Reliability

Bipolar plates are the heart of electrolyzers used to produce hydrogen. Depending on the manufacturing process, stacks can consist of hundreds of such bipolar plates, whereby a single defective plate can negatively impact the performance of the entire stack. Because of this, it makes sense to monitor the voltage of each plate separately. We have developed the appropriate solution for this and thus the measured values can be recorded and processed reliably, safely and economically in potentially explosive areas..

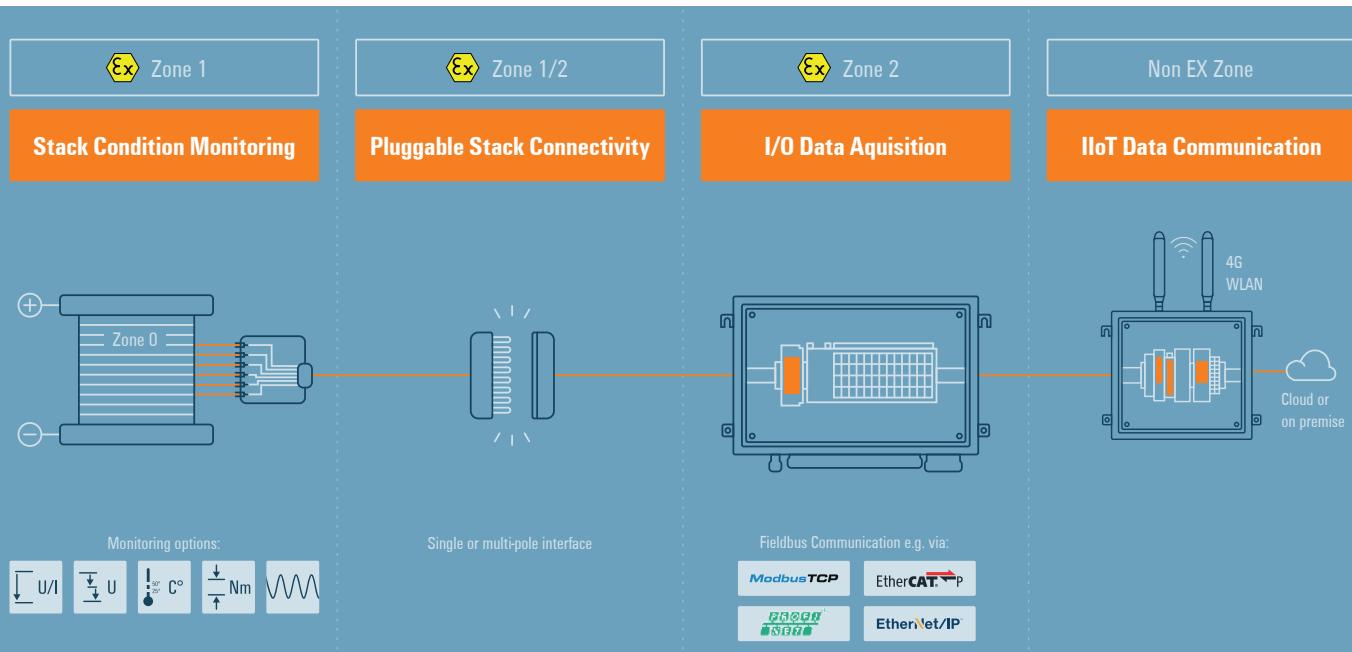


Stack Connectivity- Cell Voltage Pickup (CVP)

In addition to single connections, multiport connections are also possible. The contacts are applied to the printed circuit boards in such a way that several boards can be contacted in a single plug-in operation. The temperature-related expansion of the stack must be taken into account- for the typical stacks of PEM electrolysis, this means an enormous time saving..

Data Acquisition

Data pre-processing is handled by the u-remote station with Ex approval for zone 2. The data is passed to a gateway or a router. For connection to the control system, we provide variants for all common fieldbus protocols like PROFINET, Modbus TCP and of course Ethernet.





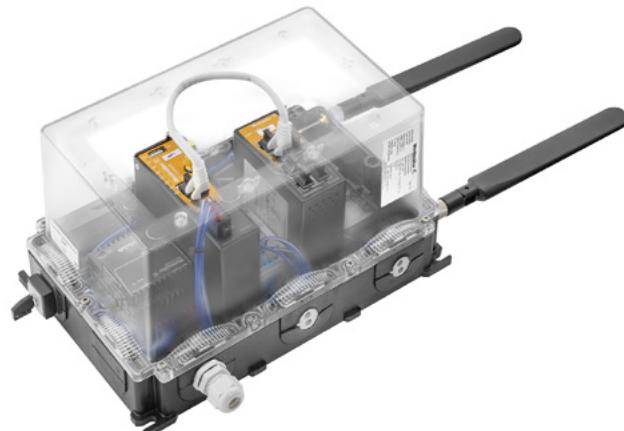
IIoT Data Communication

In addition to the LAN connection, a connection via IoT-boxes to the customer's cloud or our own cloud is also possible. This also makes it possible to monitor the external data of stationary equipment. This allows not only the user, but also the system manufacturer to access the system for diagnostics, service, or support.

Visualization and analysis

With our visualization hardware and software solutions, we enable real-time data acquisition from stacks, empowering manufacturers and operators to monitor crucial parameters and identify potential failures like cell degradation, gas crossover, leaks, sealing issues, and stack contamination. Our integrated approach ensures seamless data flow from the stack to ProconWeb, where it can be fed into our on-premise or cloud-based Automated Machine Learning (AML) tool.

AML handles large-scale data, extracts valuable insights, and triggers alarm functions or email notifications on ProconWeb for anomaly detection. You can continuously improve model performance easily by retraining models as you gain more insights and collect more data from stacks and processes. The performance of the data models is continuously improved by training with new data from stacks and processes.



Solutions for electrolyzers

Electrical Connectivity and Automation

At Weidmüller, we are setting new standards and focusing in particular on providing the best possible support for the „green“ hydrogen industry. We achieve this by offering customized solutions for all electrolysis processes, e.g. AE (Alkaline Electrolysis), PEM (Proton Exchange Membrane), AEM (Anion Exchange Membrane) and SOEC (Solid Oxide Electrolysis Cell). Thanks to our know-how in the areas of energy, signal and data transmission, we can offer precise technical solutions to effectively reduce costs and space requirements. Whether it's optimizing the electrolysis process, ensuring seamless signal transmission or enabling fast data communication, our comprehensive product range covers the diverse requirements of green hydrogen production.

Sensor/ Actuator Connectivity



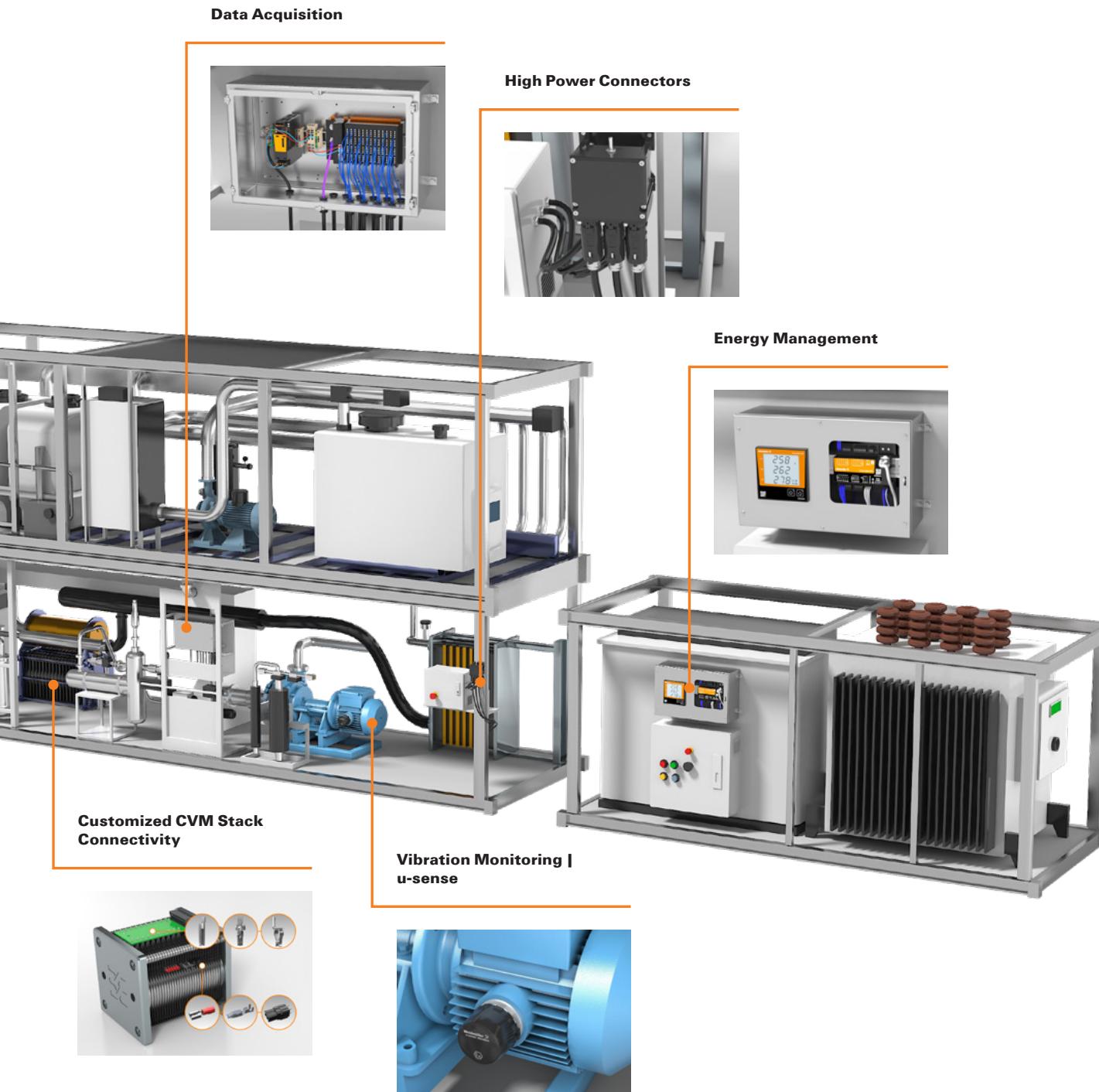
Industrial Cabinet



Data Communication



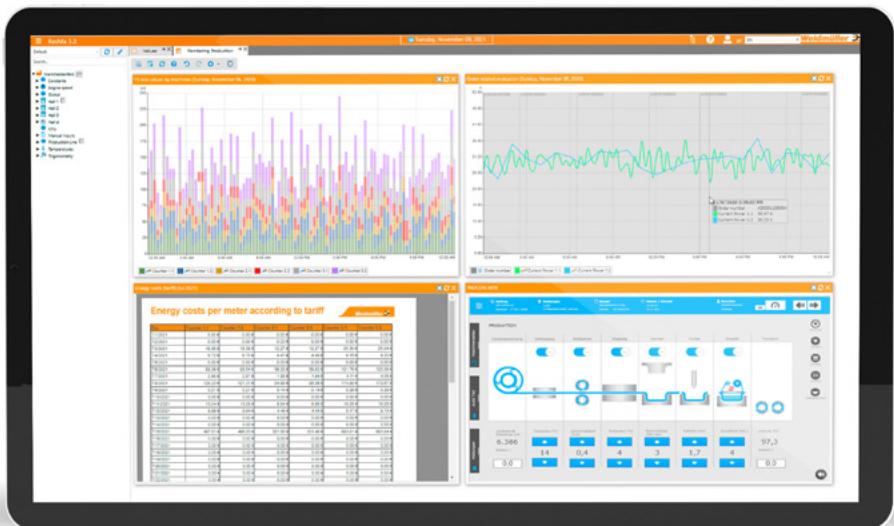
For further products, information, technical specifications or additional services, please visit our website:
www.weidmueller.com/h2electrolysis



Weidmüller Solutions for Hydrogen Refueling Stations

Empowering Efficiency and Innovation

Weidmüller offers advanced technology for hydrogen refueling stations that enables green innovation with a focus on modularity and efficiency. We simplify the assembly of hydrogen refueling stations with modular and standardised sensor cables for plug-and-play connections. Safety is a top priority in hazardous environments, our solutions simplify various safety requirements for hazardous areas. Integrating SCADA with u-view HMIs improves visibility and provides insight into system performance.



Control Room

- Modular controller
- Modular or compact remote I/O
- Remote access & Web-based SCADA
- Industrial Analytics
- Measuring & Monitoring systems
- Energy Management with ResMa®
- easyConnect Plattform
- Data Communication: Industrial ethernet portfolio and gateways
- Fieldbus distribution



For further products, information, technical specifications or additional services, please visit our website:
www.weidmueller.com/h2refuelling

Modularity and Standardization:

We simplify hydrogen refueling station assembly through modularity and standardization with pre-assembled sensor cables for plug-and-play connections.

SNAP IN Technology:

We offer SNAP IN Technology for the fastest, safest, and simplest hydrogen refueling station connections.

Emergency Stop with Pushbuttons**for EX Environments:**

Safety is paramount in hazardous environments; our standardized approach simplifies Emergency Stop orders for EX areas.

Customer Specific Assembly with**Weidmüller Configurator (WMC)**

Our Weidmüller Configurator (WMC) software empowers customers to design custom enclosures for hydrogen refueling stations.

Compressor

- Modular controller
- Modular or compact remote I/O
- Modified & Assembled enclosures (ATEX)
- Intrinsically safe analog signal conditioning, HART® repeaters
- Data communication: Industrial Ethernet portfolio
- Industrial Analytics
- Relay Couplers & Solid State Relays
- Distribution boxes
- Terminal boxes & Sensor distribution block (Ex i-)
- Cables

We provide a comprehensive Ethernet switch portfolio and u-link software for efficient monitoring and control of hydrogen refueling stations.

SCADA Integration with u-view Series HMIs:

SCADA Integration with u-view Series HMIs enhances monitoring and control, providing insights into system performance.

Predictive Maintenance and Predictive Quality:

Weidmüller's Predictive Maintenance and Predictive Quality solutions enable early anomaly detection, improving station reliability.

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Together with U-control, u-remote offers a flexible I/O architecture solution for various applications within hydrogen refueling stations.

Ethernet Switch Portfolio and u-link Integration:**Cooling Unit**

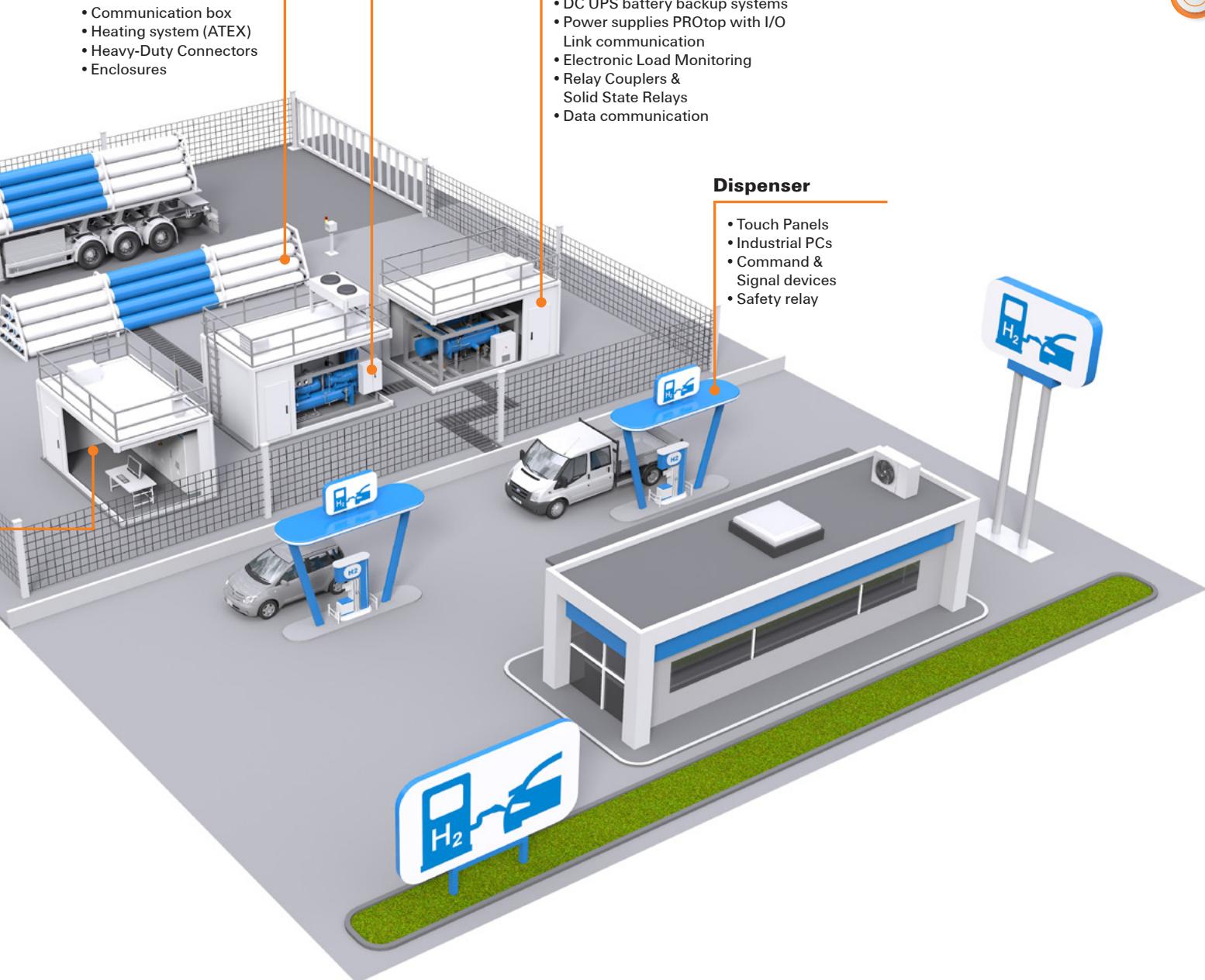
- Modular controller
- Modular or compact remote I/O
- DC UPS battery backup systems
- Power supplies PROtop with I/O Link communication
- Electronic Load Monitoring
- Relay Couplers & Solid State Relays
- Data communication

Trailer Swap

- Communication box
- Heating system (ATEX)
- Heavy-Duty Connectors
- Enclosures

Dispenser

- Touch Panels
- Industrial PCs
- Command & Signal devices
- Safety relay





For further products, information, technical specifications or additional services, please visit our website:

www.weidmueller.com/terminal-blocks

Terminal blocks - Klippon® Connect

SNAP IN technology:

The fastest, safest and easiest connection for hydrogen applications. With the innovative Weidmüller SNAP IN technology makes connecting terminal simpler. Experience time-saving connections with visual and acoustic noise make error-free installations. Our diverse product range also ensures the efficiency and reliability of your hydrogen applications.

Rely on SNAP IN for strong performance, safety and simplification for your hydrogen projects.

SNAP IN



S-Series - SNAP IN technology

Type	Version	Qty	Order No.
S2C 2.5	Feed-through terminal, SNAP IN, 2,5 mm ² , 800 V, 24 A, dark beige	100	2674530000
S3C 2.5	Feed-through terminal, SNAP IN, 2,5 mm ² , 800 V, 24 A, dark beige	100	2674540000
S4C 2.5	Feed-through terminal, SNAP IN, 2,5 mm ² , 800 V, 24 A, dark beige	100	2674550000
S2C 4	Feed-through terminal, SNAP IN, 4 mm ² , 800 V, 32 A, dark beige	50	2874820000
S3C 4	Feed-through terminal, SNAP IN, 4 mm ² , 800 V, 32 A, dark beige	50	2874840000
S4C 4	Feed-through terminal, SNAP IN, 4 mm ² , 800 V, 32 A, dark beige	50	2874860000
S2T 2.5	Feed-through terminal, SNAP IN, 2,5 mm ² , 800 V, 24 A, dark beige	50	2902380000

A-Series - PUSH IN technology

Type	Version	Qty	Order No.
A2C 1.5	Feed-through terminal, PUSH IN, 1,5 mm ² , 500 V, 17,5 A, dark beige	100	1552790000
A3C 1.5	Feed-through terminal, PUSH IN, 1,5 mm ² , 500 V, 17,5 A, dark beige	50	1552740000
A4C 1.5	Feed-through terminal, PUSH IN, 1,5 mm ² , 500 V, 17,5 A, dark beige	100	1552690000
A2C 2.5	Feed-through terminal, PUSH IN, 2,5 mm ² , 800 V, 24 A, dark beige	100	1521850000
AL2C 2.5	Feed-through terminal, PUSH IN, 2,5 mm ² , 800 V, 24 A, dark beige	100	2847200000
A3C 2.5	Feed-through terminal, PUSH IN, 2,5 mm ² , 800 V, 24 A, dark beige	100	1521740000

PUSH IN



W-Series - Clamping yoke technology

Type	Version	Qty	Order No.
WDU 2.5	Feed-through terminal, Screw connection, 2,5 mm ² , 800 V, 24 A, dark beige	100	1020000000
WDU 4	Feed-through terminal, Screw connection, 4 mm ² , 800 V, 32 A, dark beige	100	1020100000
WDU 6	Feed-through terminal, Screw connection, 6 mm ² , 800 V, 41 A, dark beige	100	1020200000
WDU 10	Feed-through terminal, Screw connection, 10 mm ² , 1000 V, 57 A, dark beige	50	1020300000



WPD Power Distribution

Type	Version	Qty	Order No.
WPD 130 1X50/1X50 GY	W-Series, Distribution block, Rated cross-section: 50 mm ² , Terminal rail / mounting plate	9	2502530000
WPD 131 1X95/1X95 GY	W-Series, Distribution block, Rated cross-section: 95 mm ² , Terminal rail / mounting plate	2	2503090000
WPD 132 1X185/1X185 GY	W-Series, Distribution block, Rated cross-section: 185 mm ² , Terminal rail / mounting plate	1	2502750000
WPD 133 1X300/1X300 GY	W-Series, Distribution block, Rated cross-section: 300 mm ² , Terminal rail / mounting plate	1	2502850000



Klippon® Connect TTB-Range

Type	Version	Qty	Order No.
ATTB 6	Test-disconnect terminal, PUSH IN, 6 mm ² , 500 V, 30 A, dark beige	50	2710070000
ATTB 6 PE	Test-disconnect terminal PE-version, PUSH IN, 6 mm ² , 500 V, green-yellow	50	2710080000
WTTB 6	Test-disconnect terminal, Screw connection, 6 mm ² , 500 V, 30 A, dark beige	50	2710090000
WTTB 6 PE	Test-disconnect terminal PE-version, Screw connection, 6 mm ² , 500 V, green-yellow	50	2710100000
Note			





SAI Distribution Boxes

Our sensor actuator boxes are equipped with metal threaded rings as standard. This ensures a particularly secure screw connection. The portfolio includes M8 and M12 distribution boxes in plastic and metal. We also develop customised variants according to your individual specifications.



For further products, information, technical specifications or additional services, please visit our website:
www.weidmueller.com/sensor-actuator-boxes



EX ia distributors

Type	Version	Qty	Order No.
SAI-8-M 4P EXI Z1 OL	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	1894380000
SAI-8-M 4P M12 EX IA	Hood version Ex, M12, 30 V, A-coded, LED: Yes	1	1896080000



Signal distribution boxes - M12 distribution boxes

Type	Version	Qty	Order No.
SAI-4-M 5P M12 1:1	Hood distributor, M12, 30 V, A-coded, LED: No, LED initiator: No, Wiring type: 1:1	1	1806010000
SAI-8-M 5P M12 OL2	Hood distributor, M12, 30 V, A-coded, LED: No, LED initiator: No	1	1816610000



Power distributors

Type	Version	Qty	Order No.
SAI-4-M-MV-M12 1:1	Hood version, M12, 400 V, S-coded, LED: Yes	1	2009620000



M12 EX distributor - OL2 wiring

Type	Version	Qty	Order No.
SAI-04D-VPPP-5A-M120-OL2-EX	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	2943810000
SAI-08D-VPPP-5A-M120-OL2-EX	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	2902930000
SAI-04D-VPHP-5A-M120-OL2-EX	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	2943800000
SAI-08D-VPHP-5A-M120-OL2-EX	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	2921130000



M12 EX distributor for NAMUR sensors

Type	Version	Qty	Order No.
SAI-4-M 4P EXI Z1 OL	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	1868350000
SAI-8-M 4P EXI Z1 OL	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	1894380000
SAI-04D-VPHP-2A-M120-NAM-EX	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	2921100000
SAI-04D-VPHP-2A-M120-NAM-EX	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	2921120000



M12 EX distributor - 1:1 wiring

Type	Version	Qty	Order No.
SAI-04D-VPPP-5A-M120-OL2-EX	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	2943810000
SAI-04D-VPHP-5A-M120-OL2-EX	Hood version Ex, M12, 30 V, A-coded, LED: No, LED initiator: No	1	2943800000





RockStar® heavy-duty connectors

Simple installation with SNAP IN & PUSH IN Connection technologies

New technologies pose new challenges. For example increasingly relying on CO₂-neutral technologies neutral technologies. One of these new forms of generation is hydrogen production. As this produces explosive gases, it is also necessary to use approved connectors. HDC Rockstar® also offers the right solution here in proven quality.

The heavy-duty connectors were designed for:

- Intrinsically safe circuits
- Limit temperatures from -50 degrees to +120 degrees
- Protection class IP65 in mated condition

The following advantages have been incorporated into the development:

- SNAP IN & PUSH IN connection technologies for quick assembly
- Extended temperature range



For further products, information, technical specifications or additional services, please visit our website:
www.weidmueller.com/rockstar

EXI – Plug connector for intrinsically safe circuits

Technical data

Rated current	max: 5A at 60 degrees ambient temperature T6
Rated voltage (IEC 60079 Part 11)	60 V AC / DC
Protection level	II 2G Ex ib IIC T6 Gb
Approval	ExI, intrinsic safety according to IEC 60079- 11
Conductor connection	0.5... 2.5 mm ²
Labelling	via material designation and EXI screw connection

Type	Version	Connection technology	Qty	Order No.
HDC connection 6 pole, 5A, 1xM20, IP65				
HDC HE 6 MP EXI	Insert, male	PUSH IN connection	1	3001200000
HDC HE 6 FP EXI	Insert, female	PUSH IN connection	1	3001190000
HDC 06B ALU EXI	Bulkhead housing		1	3001300000
HDC 06B TSLU 1M20G EXI	Hood, Cable Entry sideways		1	3001350000
HDC 06B TOBL 1M20G EXI	Hood, Cable Entry at top		1	3001360000
VG M20 EXI 7-13 CR7J G4	Cable Glands M20, IP68		50	2722250000
HDC connection 10 pole 5A, 1xM20, IP65				
HDC HE 10 MP EXI	Insert, male	PUSH IN connection	1	3001230000
HDC HE 10 FP EXI	Insert, female	PUSH IN connection	1	3001220000
HDC 10B ABU EXI	Bulkhead housing		1	3001310000
HDC 10B TSBU 1M25G EXI	Hood, Cable Entry sideways		1	3001370000
HDC 10B TOBU 1M25G EXI	Hood, Cable Entry at top		1	3001390000
VG M25 EXI 12-17 CR7J G4	Cable Glands M25, IP68		50	2722270000
HDC connection 16 pole, 5A, 1xM25, IP65				
HDC HE 16 MP EXI	Insert, male	PUSH IN connection	1	3001250000
HDC HE 16 FP EXI	Insert, female	PUSH IN connection	1	3001240000
HDC 16B ABU EXI	Bulkhead housing		1	3001320000
HDC 16B TSBU 1M25G EXI	Hood, Cable Entry sideways		1	3001400000
HDC 16B TOBU 1M25G EXI	Hood, Cable Entry at top		1	3001440000
VG M25 EXI 12-17 CR7J G4	Cable Glands M25, IP68		50	2722270000
HDC connection 24 pole, 5A, 1xM25, IP65				
HDC HE 24 MP EXI	Insert, male	PUSH IN connection	1	3001280000
HDC HE 24 FP EXI	Insert, female	PUSH IN connection	1	3001270000
HDC 24B ABU EXI	Bulkhead housing		1	3001330000
HDC 24B TSBU 1M25G EXI	Hood, Cable Entry sideways		1	3001460000
HDC 24B TOBU 1M25G EXI	Hood, Cable Entry at top		1	3001520000
VG M25 EXI 12-17 CR7J G4	Cable Glands M25, IP68		50	2722270000

PUSH IN



RockStar® HighPower: the modular 550 A connector

Type	Rated current	Rated voltage	Conductor cross-section	Number of poles	Version	Qty	Order No.
Bulkhead housing							
HDC IP68 HP 24B A						1	1120040000
Base housing							
HDC IP68 HP 24B AS S						1	1079920000
Plug housing							
HDC IP68 HP 24B TO						1	1079930000
Contact mounting frame							
HDC 24B HP550 MPL2 TYP1				2	Male	1	1103710000
HDC 24B HP550 MPL2 TYP2				2	Female	1	1103770000
550 A Crimp contacts							
HDC HP 550 M 240	550 A	3000 V	240 mm ²		Male	1	1120590000
HDC HP 550 F 240	550 A	3000 V	240 mm ²		Female	1	1120600000
Cover for cable glands							
HDC IP68 24B MD 2M40				2xM40		1	1119990000
Cable gland							
VGM40-MS68 20-32 BG				M40		10	1193620000

**RockStar® ModuPlug: Modular connectors with great performance in a reduced installation space****RockStar® ModuPlug: Modular connectors**

Type	Version	Qty	Order No.
Modular connectors, size 8, M32, IP65			
HDC MF 24B AF	Modular insert AF	1	1429050000
HDC MF 24B FA	Modular insert FA	1	1429070000
HDC 24B ADLU	Bulkhead housing	1	1214300000
HDC 64D SDLU 1M32G	Base housing	1	1904440000
HDC 64D TSLU 1M32G	Hood, Cable Entry sideways	1	1786810000

**Data modules – ModuPlug data inserts**

Type	Version	Required plug-in slots	Qty	Order No.
HDC MRJ45 GC	RJ45-RJ45 Gender changer	1	1	2592030000
HDC MRJ45 ABP MI	EIA/TIA-568A, EIA/TIA-568B PROFINET	1	1	2592210000

**Power inserts – ModuPlug power module**

Type	Rated current	Rated voltage	Connection type	Conductor cross-section	Number of poles	Required plug-in slots	Version	Qty	Order No.
HDC MHX 4 MP	40 A	690 A	PUSH IN connection	10 mm ²	4	1	Male	1	2772810000
HDC MHX 4 FP	40 A	690 A	PUSH IN connection	10 mm ²	4	1	Female	1	2772800000

**Power Module – ModuPlug power module**

Type	Rated current	Rated voltage	Connection type	Conductor cross-section	Number of poles	Required plug-in slots	Version	Qty	Order No.
HDC MHP 70 FAS	70 A	1000 V	Axial screw connection	25 mm ²	2	1	Male	2	2748310000
HDC MHP 70 MAS	70 A	1000 V	Axial screw connection	25 mm ²	2	1	Female	2	2748300000
HDC MHP 100 FAS	100 A	1000 V	Axial screw connection	35 mm ²	2	2	Male	2	2748290000
HDC MHP 100 MAS	100 A	1000 V	Axial screw connection	35 mm ²	2	2	Female	2	2748280000
HDC MHP 200 FAS	200 A	1000 V	Axial screw connection	70 mm ²	1	2	Male	2	2748250000
HDC MHP 200 MAS	200 A	1000 V	Axial screw connection	70 mm ²	1	2	Female	2	2748240000



Signal modules – ModuPlug signal modules

Type	Rated current	Rated voltage	Connection type	Conductor cross-section	Number of poles	Required plug-in slots	Version	Qty	Order No.
HDC MHE 5 MP	16 A	400 V	PUSH IN connection	2.5 mm ²	5	1	Male	1	2636180000
HDC MHE 5 FP	16 A	400 V	PUSH IN connection	2.5 mm ²	5	1	Female	1	2636190000
HDC MHE 6 MP	16 A	500 V	PUSH IN connection	2.5 mm ²	6	1	Male	1	2748420000
HDC MHE 6 FP	16 A	500 V	PUSH IN connection	2.5 mm ²	6	1	Female	1	2748430000
HDC MHE 8 MP	16 A	400 V	PUSH IN connection	2.5 mm ²	8	1	Male	1	2748440000
HDC MHE 8 FP	16 A	400 V	PUSH IN connection	2.5 mm ²	8	1	Female	1	2748450000
HDC MHD 12 FP	10 A	250 V	PUSH IN connection	1.5 mm ²	12	1	Male	1	2748470000
HDC MHD 12 MP	10 A	250 V	PUSH IN connection	1.5 mm ²	12	1	Female	1	2748460000
HDC MDU					0.5		Dummy module	1	1429040000



RockStar® Heavy-duty connectors

Type	Version	Connection technology	Qty	Order No.
HDC connection 4 pole, 400V, 16A, size 1, M20, IP65				
HDC HA 4 FS	Insert, male	Screw connection	1	1498400000
HDC HA 4 MS	Insert, female	Screw connection	1	1498300000
HDC 04A ALU	Bulkhead housing		1	1497600000
HDC 04A AWLU	Angled bulkhead housing		1	1497700000
HDC 04A TOLU 1M20G	Hood, Cable Entry at top		1	1788820000
HDC connection 24 pole, 500V, 16A, size 8, M32, IP65				
HDC HE 24 MQT	Insert, male	SNAP IN connection	1	2667010000
HDC HE 24 FP	Insert, male	PUSH IN connection	1	1873580000
HDC HE 24 FS	Insert, male	Screw connection	1	1211300000
HDC HE 24 FQT	Insert, female	SNAP IN connection	1	2666990000
HDC HE 24 MP	Insert, female	PUSH IN connection	1	1873590000
HDC HE 24 MS	Insert, female	Screw connection	1	1211100000
HDC 24B ADLU	Bulkhead housing		1	1214300000
HDC 64D SDLU 1M32G	Base housing		1	1904440000
HDC 24B TSLU 1M32G	Hood, Cable Entry sideways		1	1787790000





For further products, information, technical specifications or additional services, please visit our website:
www.weidmueller.com/as-product-overview

Analogue Signal Conditioning

When used for industrial monitoring applications, sensors can record ambience conditions. Sensor signals are used within the process to continually track changes to the area being monitored. Both digital and analogue signals can occur. Normally an electrical voltage or current value is produced which corresponds proportionally to the physical variables that are being monitored. Analogue signal processing is required when automation processes have to constantly maintain or reach defined conditions. This is particularly significant for process automation applications. Standardised electrical signals are typically used for process engineering. Analogue standardised currents & voltages 0(4)...20 mA/ 0...10 V have established themselves as physical measurement and control variables.

WAVESERIES – Universal signal converter for hazardous areas

Type	Version	Qty	Order No.
WAZ6 TTA EX	Input: EX, universal U, I, R, S, Output: I/U universal, 2 x relays	1	8964320000



ACT20P – Signal converter and process monitoring for industrial applications

Type	Version	Qty	Order No.
ACT20P-VM-AO-P	Signal converter/insulator, Input: AC/DC voltage, 0...600 V DC, 0...440 V AC, Output: 0-10 V, 0(4)-20 mA, Signal converter/isolator	1	7760054360
ACT20P-CI-VO-P	Signal converter/insulator, Input: 0(4)-20 mA, Output: 0-10 V, Signal converter/isolator	1	2489740000
ACT20P-CI-CO-P-P	Signal converter/insulator, Input: 0(4)-20 mA, Output: 0(4)-20 mA, Voltage supply also via CH20M rail bus, Signal converter/isolator, HART®	1	2514620000
ACT20P-CI1-CO-OLP-P	Signal converter/insulator, Input: 0-20 mA, Output: 4-20 mA, (loop powered), Signal converter/isolator, Output current loop powered	1	7760054353
ACT20P-PRO-RTCI-AO-DO-S	Temperature converter, Limit value monitoring, Input: Temperature, Resistance, Potentiometer, Output: I/U universal, Transistor (Alarm), Temperature converter, Limit value monitoring	1	2448100000
ACT20P-UI-2RCO-DC-S	Limit value monitoring, Input: universal U, I, R, S, Output: 2 x relays, Input: temperature, R, U, I, Relay output, 24 V DC power supply	1	7940045760
ACT20P-TCI-2AO-P	Signal duplicator/isolator, Input: Temperature, thermocouple, Output: 2 x I/U, Signal converter/isolator	1	7760054188
ACT20P-VMR-1PH-H-P	Limit value monitoring, Input: 110 / 240 / 400 V AC/DC, Output: 2 x relays, Input: single-phase voltage, Relay output	1	7760054359
ACT20P-UI-2RCO-DC-S	Limit value monitoring, Input: universal U, I, R, S, Output: 2 x relays, Input: temperature, R, U, I, Relay output, 24 V DC power supply	1	7940045760
ACT20P-CMT-60-AO-RC-P	Current-measuring transducer, Limit value monitoring, Input: 0...40/50/60 A, Analogue output, Relay output, Current-carrying cable in feed-through hole	1	1510290000
ACT20P-PRO-FI-AO-DO-P	Frequency signal converter, Limit value monitoring, Frequency, PWM, analogue V / mA, Transistor (Alarm)	1	2447950000



ACT20X – Intrinsically safe signal converter for hazardous areas

Type	Version	Qty	Order No.
ACT20X-HUI-SAO-P	EX signal isolating converter, Ex-output: U, I, R, S, Safe-output: 4-20mA relay, 1-channel	1	2456200000
ACT20X-2HAI-2SAO-P	EX signal isolating converter, Ex-input: 4 - 20 mA, Safe-output: 4-20mA, 2-channel	1	2456150000
ACT20X-2SAI-2HAO-P	EX signal isolating converter, Safe-input: 4-20mA, Ex output: 4 - 20 mA, 2-channel	1	2456170000
ACT20X-2HTI-2SAO-P	Ex signal isolating converter, Ex-input: I,S, Safe-output: 4-20mA, 2-channel	1	2456190000
ACT20X-2HDI-2SDO-RNO-P	EX signal isolating converter, Ex-input: NAMUR sensor/switch, Safe-output: relay, NO contact, 2-channel	1	2456080000
ACT20X-2HDI-2SDO-P	EX signal isolating converter, Ex-input: NAMUR sensor/switch, Safe-output: Optocoupler, 2-channel	1	2456100000
ACT20X-2SDI-2HDO-P	EX signal isolating converter, Safe-input: relay, Ex-output: Opto module, 2-channel, Output current: max. 35 mA	1	2456130000





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TERMSERIES – relay modules

Type	Version	Qty	Order No.
TRP 24VDC 1CO	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, PUSH IN, Test button available: No	10	2618000000
TRP 24VDC 1CO 16A	TERMSERIES, Relay module, Number of contacts: 1, CO contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 16 A, PUSH IN, Test button available: No	10	2618100000



D-Series – relay modules

Type	Version	Qty	Order No.
SDI 1CO P	D-SERIES DRI, Relay socket, Number of contacts: 1, CO contact, Continuous current: 12 A, PUSH IN	20	7760056364
SCM 2CO P	D-SERIES DRM, Relay socket, Number of contacts: 2, CO contact, Continuous current: 12 A, PUSH IN	10	7760056362
SDI 2CO P	D-SERIES DRI, Relay socket, Number of contacts: 2, CO contact, Continuous current: 8 A, PUSH IN	20	7760056365
SCM 4CO P	D-SERIES DRM, Relay socket, Number of contacts: 4, CO contact, Continuous current: 6 A, PUSH IN	10	7760056363
DRI424024LTD	D-SERIES DRI, Relay, Number of contacts: 2, CO contact AgSnO, Rated control voltage: 24 V DC, Continuous current: 5 A, Flat blade connections (2.5 mm x 0.5 mm), Test button available: Yes	20	7760056340
DRI424024	D-SERIES DRI, Relay, Number of contacts: 2, CO contact AgSnO, Rated control voltage: 24 V DC, Continuous current: 5 A, Flat blade connections (2.5 mm x 0.5 mm), Test button available: No	20	7760056322
DRM570024LT	D-SERIES DRM, Relay, Number of contacts: 4, CO contact, AgNi flash gold-plated, Rated control voltage: 24 V DC, Continuous current: 5 A, Plug-in connection	20	7760056097
DRM570220	D-SERIES DRM, Relay, Number of contacts: 4, CO contact, AgNi flash gold-plated, Rated control voltage: 220 V DC, Continuous current: 5 A, Plug-in connection	20	7760056082
DRH276024LT	D-SERIES DRW / DRH, Relay, Number of contacts: 2, NO contact with blow-out magnet AgSnO, Rated control voltage: 24 V DC, Continuous current: 16 A, Flat blade connections (4.8 mm x 0.5 mm), Test button available: Yes		1220150000
PWR173024L	D-SERIES PWR, Relay module, Number of contacts: 1, NO contact AgSnO, Rated control voltage: 24 V DC, Continuous current: 30 A, Screw connection, Test button available: No		1219480000



SIL safety relay

Type	Version	Qty	Order No.
SCS 24VDC P2SIL3ES	SAFESERIES, Safety relay, 24 V DC $\pm 15\%$, 24 VDC +15% / -10% during auto-start, 35 mA, 5, SIL 3, DIN EN 61508, EN ISO 13849-1 (PLe)	1	1319280000
SCS 24VDC P2SIL3DSES	SAFESERIES, Safety relay, 24 V DC -15 / +20%, 35 mA, Max. switching current, internal fuse: 5 A (refer to derating curve), SIL 3, DIN EN 61508	1	1319270000
SCS 24VDC P1SIL3DS M	SAFESERIES, Safety relay, 24 V DC $\pm 20\%$, 35 mA, Max. switching current, internal fuse: 5 A (refer to derating curve), SIL 3, EN 61508:2010	1	1303760000
SCS 24VDC P1SIL3ES LL	Safety relay, 24 V DC $\pm 20\%$, Max. switching current, internal fuse, Safety category: SIL 3 EN 61508:2010	1	2633940000
SCS 24VDC P1SIL3ES LL-T	Safety relay, 24 V DC $\pm 20\%$, Max. switching current, internal fuse, Safety category: SIL 3 EN 61508:2010	1	2634010000

**SAFESERIES Contact Extension with forcibly guided contacts**

Type	Version	Qty	Order No.
FSKIT 24VDC 2NO2NC FG LD AGSNO AU	SAFESERIES, Relay module with positively driven contacts 2 NC and 2 NO contacts forcibly guided (EN 61810-3 type A) AgSnO gold-plated, Rated control voltage: 24 V DC $\pm 10\%$, Continuous current: 6 A, Screw connection, Test button available: No	1	2759080000
FSKIT 24VDC 3NO1NC FG LD AGSNO AU	SAFESERIES, Relay module with positively driven contacts 1 NC and 3 NO contacts forcibly guided (EN 61810-3 type A) AgSnO gold-plated, Rated control voltage: 24 V DC $\pm 10\%$, Continuous current: 6 A, Screw connection, Test button available: No	1	2759070000
FSKIT 24VDC 3NO3NC FG LD AGSNO AU	SAFESERIES, Relay module with positively driven contacts 3 NC and 3 NO contacts forcibly guided (EN 61810-3 type A) AgSnO gold-plated, Rated control voltage: 24 V DC $\pm 10\%$, Continuous current: 6 A, Screw connection, Test button available: No	1	2759100000
FSKIT 24VDC 4NO2NC FG LD AGSNO AU	SAFESERIES, Relay module with positively driven contacts 2 NC and 4 NO contacts forcibly guided (EN 61810-3 type A) AgSnO gold-plated, Rated control voltage: 24 V DC $\pm 10\%$, Continuous current: 6 A, Screw connection, Test button available: No	1	2759090000
FSKIT 24VDC 5NO1NC FG LD AGSNO AU	SAFESERIES, Relay module with positively driven contacts 1 NC and 5 NO contacts forcibly guided (EN 61810-3 type A) AgSnO gold-plated, Rated control voltage: 24 V DC $\pm 10\%$, Continuous current: 6 A, Screw connection, Test button available: No	1	2860020000





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Connect Power PROtop

Type	Version	Qty	Order No.
Connect Power PROtop single-phase			
PRO TOP1 120W 24V 5A	Power supply, switch-mode power supply unit, 24 V	1	2466870000
PRO TOP1 240W 24V 10A	Power supply, switch-mode power supply unit, 24 V	1	2466880000
PRO TOP1 480W 24V 20A	Power supply, switch-mode power supply unit, 24 V	1	2466890000
PRO TOP1 960W 24V 40A	Power supply, switch-mode power supply unit, 24 V	1	2466900000
PRO TOP1 120W 24V 5A EX	Power supply, switch-mode power supply unit, 24 V	1	2466980000
PRO TOP1 240W 24V 10A EX	Power supply, switch-mode power supply unit, 24 V	1	2466990000
PRO TOP1 480W 24V 20A EX	Power supply, switch-mode power supply unit, 24 V	1	2467000000
PRO TOP1 960W 24V 40A EX	Power supply, switch-mode power supply unit, 24 V	1	2467010000
Connect Power PROtop for highest demands, 3-phase			
PRO TOP3 120W 24V 5A CO	Power supply, switch-mode power supply unit, 24 V	1	2467070000
PRO TOP3 240W 24V 10A CO	Power supply, switch-mode power supply unit, 24 V	1	2467090000
PRO TOP3 480W 24V 20A CO	Power supply, switch-mode power supply unit, 24 V	1	2467110000
PRO TOP3 960W 24V 40A CO	Power supply, switch-mode power supply unit, 24 V	1	2467130000



Communication modules

Type	Version	Qty	Order No.
PRO COM DISPLAY 7S	Communication module	1	2466960000
PRO COM IO-LINK	Communication module	1	2587360000
PRO COM CAN OPEN	Communication module	1	2467320000



DC/DC converter

Type	Version	Qty	Order No.
PRO TOPDC 24V/24V 5A	DC/DC converter	1	2627650000
PRO TOPDC 24V/24V 10A	DC/DC converter	1	2627640000
PRO TOPDC 24V/24V 20A	DC/DC converter	1	2627630000



maxGUARD – Electronic load monitoring

Type	Version	Qty	Order No.
AMG CM EX	Control module, 24 V DC	1	2083360000
AMG ELM-18 EX	Electronic load monitoring, 18 A, 24 V DC	1	2838520000
AMG DIS EX	Potential distributor	10	2495100000
AMG AM CO	Alarm module, 24 V DC	1	2082770000
AMG CM	Control module, 24 V DC	1	2081900000
AMG ELM-18	Electronic load monitoring, 18 A, 24 V DC	10	2859800000
AMG DIS	Potential distributor	10	2123050000
AMG ELM-18	Electronic load monitoring, 18 A, 24 V DC	10	2859800000
AMG MD	Potential distributor	10	2122930000
AMG PD	Potential distributor	10	2122920000

**topGUARD – Electronic load monitoring**

Type	Version	Qty	Order No.
TGD FIM-C	Supply module	1	2625000000

**Connect Power PROmax**

Type	Version	Qty	Order No.
Connect Power PROmax single-phase			
PRO MAX 70W 5V 14A	Power supply, switch-mode power supply unit, 5 V	1	1478210000
PRO MAX 72W 24V 3A	Power supply, switch-mode power supply unit, 24 V	1	1478100000
PRO MAX 240W 24V 10A	Power supply, switch-mode power supply unit, 24 V	1	1478130000
PRO MAX 960W 48V 20A	Power supply, switch-mode power supply unit, 48 V	1	1478270000
Connect Power PROmax 3-phase			
PRO MAX3 120W 24V 5A	Power supply, switch-mode power supply unit, 24 V	1	1478170000
PRO MAX3 240W 24V 10A	Power supply, switch-mode power supply unit, 24 V	1	1478180000
PRO MAX3 480W 24V 20A	Power supply, switch-mode power supply unit, 24 V	1	1478190000
PRO MAX3 960W 24V 40A	Power supply, switch-mode power supply unit, 24 V	1	1478200000

**UPS control unit**

Type	Version	Qty	Order No.
CP DC UPS 24V 20A/10A	UPS control unit	1	1370050010

**Battery module**

Type	Version	Qty	Order No.
DURA ECO LA-BAT 24V 7AH	Battery	1	2789910000
DURA ECO LA-BAT 24V 12AH	Battery	1	2789920000
DURA ECO LA-BAT 24V 17AH	Battery	1	2789930000





Lightning and Surge Protection

Due to the increasing digitalisation and inter-communication of various electronic devices, they are now much more susceptible to transient and high-energy voltage peaks. With Weidmüller lightning and surge protection for energy, data and signals, you can protect your system and prevent downtimes.



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www.weidmueller.com/surge-protection



Surge protection type I

Type	Version	Qty	Order No.
VPU AC I 3+1 R 440/25 LCF	Surge voltage arrester, Low voltage, Surge protection, with remote contact, TN-CS, TN-S, TT, IT with N, IT without N	1	2619260000
VPU AC I 3 R 440/25 LCF	Surge voltage arrester, Low voltage, Surge protection, with remote contact, TN-C	1	2619170000
VPU AC I F 1 R 275/25	Surge voltage arrester, Low voltage, Surge protection, TT nur für LN, TN-C, TN-S	1	2859340000
VPU AC I 3+1 R 275/25 LCF S 2PE	Surge voltage arrester, Low voltage, Surge protection, Leakage-current-free, with remote contact, TN-CS, TN-S, TT, IT with N, IT without N	1	2726770000
VPU AC I 3 R 275/25 LCF S	Surge voltage arrester, Low voltage, Surge protection, Leakage-current-free, with remote contact, TN-C	1	2726750000
VPU AC I 1+1 R 300/12.5	Surge voltage arrester, Low voltage, Surge protection, with remote contact, Single-phase, TN-C, TN-CS, TN-S, TT, TN, IT with N, IT without N	1	2591490000
VPU AC I 3+1 R 300/12.5	Surge voltage arrester, Low voltage, Surge protection, with remote contact, TN-CS, TN-S, TT, IT with N, IT without N	1	2591470000
VPU AC I 3 R 300/12.5	Surge voltage arrester, Low voltage, Surge protection, with remote contact, TN-C	1	2591450000



Surge protection type II

Type	Version	Qty	Order No.
VPU AC II 2 R 75/50	Surge voltage arrester, Low voltage, Surge protection, with remote contact, Single-phase	1	2591630000
VPU AC II 2 300/50	Surge voltage arrester, Low voltage, Surge protection, Single-phase, TN-S	1	2591040000
VPU AC II 2 R 480/50	Surge voltage arrester, Low voltage, Surge protection, with remote contact, Single-phase	1	2591240000
VPU AC II 4 480/50	Surge voltage arrester, Low voltage, Surge protection, TN-CS, TN-S	1	2591270000
VPU AC II 1+1 R 300/50	Surge voltage arrester, Low voltage, Surge protection, with remote contact, Single-phase, TN, TN-S, TT, IT with N, IT without N	1	2591070000
VPU AC II 3+1 R 300/50	Surge voltage arrester, Low voltage, Surge protection, with remote contact, TN-CS, TN-S, TT, IT with N, IT without N	1	2591090000



Surge protection type III

Type	Version	Qty	Order No.
VPU III R 24V/4kV AC/DC	Surge voltage arrester, Low voltage, with remote contact, Single-phase	1	1351580000
VPU III R 230V/6kV AC	Surge voltage arrester, Low voltage, with remote contact, Single-phase	1	1351650000



Surge protection for data interfaces

Type	Version	Qty	Order No.
VSPC RS485 2CH R	Surge protection for instrumentation and control, with warning function / function indicator, U_p (L/N-PE) 250 V	1	8951670000
VSPC 2CL HF 24VDC R	Surge protection for instrumentation and control, with warning function / function indicator, U_p (L/N-PE) < 800 V	1	8951700000
VSPC BASE 2CL FG R	Surge protection, Flange-mounted housing, Flange-mounted housing	1	8951720000
VSPC CONTROL UNIT 24VDC	Surge protection for instrumentation and control, with warning function / function indicator	1	8972270000
VSPC 4SL 24VDC EX	Surge protection for instrumentation and control, without warning function / function indicator, U_p (L/N-PE) 250 V	1	1161190000
VSPC BASE 4SL FG EX	Surge protection, Flange-mounted housing, Flange-mounted housing	1	8951840000
VSPC 2CL 24VDC EX	Surge protection for instrumentation and control, without warning function / function indicator, U_p (L/N-PE) < 800 V	1	8953720000
VSPC BASE 2CL FG EX	Surge protection, Flange-mounted housing, Flange-mounted housing	1	8951820000
VSSC6 CL 24VAC/DC 0.5A	Surge protection for instrumentation and control, U_p (L/N-PE) 900 V	10	1064170000
VSSC6TRSL24VAC/DC0.5A	Surge protection for instrumentation and control, U_p (L/N-PE) 150 V	10	1354790000
VSSC6 RS485	Surge protection for instrumentation and control, U_p (L/N-PE) ≤ 100 V	10	1064980000
VSSC6 TR SL FG 24VAC/DC EX	Surge protection for instrumentation and control, U_p (L/N-PE) ≤ 1870 V	1	1421440000
VSSC4 CL FG 24VAC/DC EX	Surge protection for instrumentation and control, U_p (L/N-PE) ≤ 2000 V	1	1063810000
VSSC6 RS485 PA EX	Surge protection for instrumentation and control, U_p (L/N-PE) ≤ 2 kV	1	1065020000

**Surge protection for four wire pairs with RJ45 socket**

Type	Version	Qty	Order No.
VDATA CAT6	Terminal rail fixing, Surge protection, Cat.6, PoE, 802.3 bt at Type 1, 802.3 bt at Type 2, 8.3, 802.3 bt at Type 4	1	1348590000





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Klippon® TB – steel enclosures

Description	Height x width x depth in mm	0 Gland Plates	1 Gland Plate (below)	2 Gland Plates (above + below)	3 Gland plates (below + sides)	4 Gland plates (all sides)
KTB MH 403015 S4E_*	400 x 300 x 150	1194900000	1194910000	1194920000	1194930000	1194940000
KTB MH 403020 S4E_*	400 x 300 x 200	1194950000	1194960000	1194970000	1194980000	1194990000
KTB MH 453815 S4E_*	458 x 382 x 150	1195000000	1195010000	1195020000	1195030000	1195040000
KTB MH 453820 S4E_*	458 x 382 x 200	1195050000	1195060000	1195070000	1195080000	1195090000
KTB QL 403015 S4E_*	400 x 300 x 150	1200220000	1200230000	1200240000	1200250000	1200260000
KTB QL 403020 S4E_*	400 x 300 x 200	1200270000	1200280000	1200290000	1200310000	1200320000
KTB QL 453815 S4E_*	458 x 382 x 150	1200330000	1200340000	1200350000	1200360000	1200370000
KTB QL 453820 S4E_*	458 x 382 x 200	1200380000	1200390000	1200410000	1200420000	1200430000

Note

* Placeholder for the number of gland plates (0, 1, 2, 3, 4). The Klippon® TB enclosures with 2 and 4 gland plates are subject to minimum order quantities.



The enclosures are available in 32 standard sizes and three depths. They are made of stainless steel (1.4404 / 316L) and guarantee excellent protection even in the harshest environments thanks to the electropolished surface. In addition customised enclosures with individual dimensions can also be manufactured.



Klippon® EB – steel enclosures

Description	Dimensions (H x W x D)	Gaskets (lid and gland plate)	PE rivet	Gland plate	Order No.
HS-variants					
KEBxHS303020S4B1 AK	300 x 300 x 200mm	Silicone	x	1	8000071019
KEBxHS403020S4B1 AK	400 x 300 x 200mm	Silicone	x	1	8000071020
KEBxHS404020S4B1 AK	400 x 400 x 200mm	Silicone	x	1	8000071021
KEBxHS406020S4B1 AK	400 x 600 x 200mm	Silicone	x	1	8000071022
QL-variants					
KEBxQL403030S4B1 AK	400 x 300 x 300mm	Silicone	x	1	8000071035
KEBxQL404030S4B1 AK	400 x 400 x 300mm	Silicone	x	1	8000071036
KEBxQL406030S4B1 AK	400 x 600 x 300mm	Silicone	x	1	8000071037
Note	You can find further variants in our online catalogue at eshop.weidmueller.com				

**Modified and assembled enclosures**

Type	Version	Qty	Order No.
KLIPPON CS STB 1-1	Klippon Control Station (control and signalling device), Control / signalling device, KLIPPON STB 1 SS, Stainless steel 1.4404 (316L), EMERGENCY-STOP pushbutton with yellow, contrasting label, 2 NC contact, positive opening contacts, -55 °C...+55 °C, IP54, IP66	1	1537200000
KLIPPON CS STB 2.1-2	Klippon Control Station (control and signalling device), Control / signalling device, KLIPPON STB 2.1 SS, Stainless steel 1.4404 (316L), Pushbutton - red, Pushbutton - green, 2 NC contact, 2 NO contacts, -55 °C...+55 °C, IP54, IP66	1	1537300000
KLIPPON CS STB 2.1-7	Klippon Control Station (control and signalling device), Control / signalling device, KLIPPON STB 2.1 SS, Stainless steel 1.4404 (316L), Pushbutton - green, Pushbutton - red, EMERGENCY-STOP pushbutton with yellow, contrasting label, 2 NO contacts, 2 NC contact, positive opening contacts, -55 °C...+55 °C, IP54, IP66	1	1537370000
KLIPPON CS POK 122209-4	Klippon Control Station (control and signalling device), Control / signalling device, KLIPPON POK 122209 EX, Glass-fibre reinforced polyester with graphite mixture, Light module - red, Pushbutton - red, Light module - green, Pushbutton - green, 2 NC contact, 2 NO contacts, -55 °C...+55 °C, IP54, IP66	1	1537180000





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Cable entry system - Cabtite

Type	Version	Qty	Order No.
CABTITE FRFT 4-1 SET	Frame, Cabtite (cable entry system), Polyamide, glass fibre-reinforced, Deep black, Height: 64 mm, Width: 81 mm, Depth: 24.2 mm, -40 °C...120 °C, IP66	1	2891470000
CABTITE FRFT 10/6 SET	Frame, Cabtite (cable entry system), Polyamide, glass fibre-reinforced, Deep black, Height: 64 mm, Width: 106 mm, Depth: 24.2 mm, -40 °C...120 °C, IP66	1	2891500000
CABTITE FRFT 16/8 SET	Frame, Cabtite (cable entry system), Polyamide, glass fibre-reinforced, Deep black, Height: 64 mm, Width: 126 mm, Depth: 24.2 mm, -40 °C...120 °C, IP66	1	2891530000
CABTITE FRFT 24/10 SET	Frame, Cabtite (cable entry system), Polyamide, glass fibre-reinforced, Deep black, Height: 64 mm, Width: 153 mm, Depth: 24.2 mm, -40 °C...120 °C, IP66	1	2891560000
CABTITE BSE SML GY	Sealing element, Cabtite (cable entry system), TPE, Light Grey, Height: 20.3 mm, Width: 20.3 mm, Depth: 17.7 mm, -40 °C...90 °C, IP66	10	2583350000
CABTITE BSE LRG GY	Sealing element, Cabtite (cable entry system), TPE, Light Grey, Height: 42.8 mm, Width: 42.8 mm, Depth: 17.7 mm, -40 °C...90 °C, IP66	10	2584520000
CABTITE SE 5-6 SML GY	Sealing element, Cabtite (cable entry system), TPE, Light Grey, Height: 20.3 mm, Width: 20.3 mm, Depth: 17.7 mm, -40 °C...90 °C, IP66	10	2583450000
CABTITE SE 6-7 SML GY	Sealing element, Cabtite (cable entry system), TPE, Light Grey, Height: 20.3 mm, Width: 20.3 mm, Depth: 17.7 mm, -40 °C...90 °C, IP66	10	2583460000
CABTITE SE 10-11 SML GY	Sealing element, Cabtite (cable entry system), TPE, Light Grey, Height: 20.3 mm, Width: 20.3 mm, Depth: 17.7 mm, -40 °C...90 °C, IP66	10	2584610000
CABTITE SE 34-35 LRG GY	Sealing element, Cabtite (cable entry system), TPE, Light Grey, Height: 42.8 mm, Width: 42.8 mm, Depth: 17.7 mm, -40 °C...90 °C, IP66	10	2595530000
CABTITE SE 2/5-6 SML GY	Sealing element, Cabtite (cable entry system), TPE, Light Grey, Height: 20.3 mm, Width: 20.3 mm, Depth: 17.7 mm, -40 °C...90 °C, IP66	10	2584890000
Note	You can find further variants in our online catalogue at eshop.weidmueller.com		

Cable Entry Systems and Components

Weidmüller offers you a variety of add-on components for a multitude of applications in addition to its wide range of enclosures. This includes standard brass, plastic, and stainless steel cable glands for industrial and hazardous area applications. In addition to cable glands, there are sealing plugs, pressure compensation elements, and adapters. Relevant accessories, such as lock nuts, sealing and earthing rings are also available.

Furthermore, we support you with our cable entry system, Cabtite. Cabtite offers maximum flexibility and time-savings in the cable management of control cabinets, enclosures, and machines - high packing density in a very small space for pre-assembled and non-preassembled cables.





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www.weidmueller.com/ie

Industrial Ethernet

Weidmüller Industrial Ethernet components are the perfect link for data communication between Ethernet enabled devices in industrial automation. By supporting various topologies and protocols, they can be used in many industrial applications. As a complete provider of industrial network infrastructure for machine and equipment manufacture, we offer a wide range of switch products to suit the individual needs of our customers. In particular, Gigabit switches (unmanaged and managed) and media converters, Power-over-Ethernet switches, WLAN devices and serial/Ethernet converters to meet the highest requirements and provide a reliable and flexible Ethernet communication. An extensive passive product portfolio consisting of RJ 45 and fibre optic connectors and cables make Weidmüller your partner for industrial Ethernet solutions.



Industrial Ethernet – Active components

Type	Version	Qty	Order No.
IE-SW-EL05-5TX	Network switch, unmanaged, Fast Ethernet, Number of ports: 5x RJ45, IP30, -40 °C...75 °C	1	2682130000
IE-SW-EL10-8GT-2GESFP	Network switch, unmanaged, Gigabit Ethernet, Number of ports: 8x RJ45, 2x 100/1000BaseSFP Slot, IP30, -40 °C...75 °C	1	2682240000
IE-SW-EL08-8POE	Network switch, unmanaged PoE, Fast Ethernet, Number of ports: 8x RJ45 10/100 BaseT(X) PoE+, IP30, -40 °C...75 °C	1	2682380000
IE-SW-AL12M-8GT-4GESFP	Network switch, managed, Gigabit Ethernet, Number of ports: 8x RJ45, 4x 100/1000BaseSFP Slot, IP30, -40 °C...75 °C	1	2682340000
IE-SW-SL26M-24TX-2GC-LV	Layer 2 Network Switch, 19" rack mount, managed, Fast/Gigabit Ethernet, IEC 61850-3 / IEEE 1613, low voltage, Number of ports: 24x RJ45 10/100BASE-T(X), 2x combo-ports (10/100/1000BaseT(X) or 100/1000BaseSFP), IP30, -40 °C...85 °C	1	2779000000
IE-SFP-1GE-SM-10	SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 10 km, -40 °C...85 °C	1	2682500000
IE-CS-MBGW-2TX-1COM	Serial/Ethernet converter and Modbus TCP/RTU gateway, Number of ports: 2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485, IP30, -40 °C...70 °C	1	2682600000
IE-MC-VLT-1TX-1SCS	Media converter, Fast Ethernet, Number of ports: 1x RJ45, 1 * SC Single-mode, IP30, -40 °C...75 °C	1	1286900000
IE-WLT-VL-AP-BR-CL-EU	Wireless Access Point/Bridge/Client, IEEE 802.11 a/b/g/n, EU-Model, IP30, -40 °C...75 °C	1	2536690000
IE-SR-4GT-LTE/4G-USEMEA	Security/NAT/VPN/U-link Router, with integrated multi-band modem (4G/3G), US/EMEA-model, Gigabit Ethernet, 4x RJ45 10/100/1000BaseT(X), IP20, -25 °C...70 °C	1	2873930000
U-LINK-50-DEVICES-1Y	License code for u-link Remote Access Service., Adds 50 additional configurable u-link clients on Weidmüller hardware to the basic license and extends the period of the basic license accordingly.	1	2870090000
LMF APL 5.00/03/90 3.5SN BX	Printed circuit board terminals for Ethernet-APL, Pitch 5.00 mm, Number of poles: 3, 90°, PUSH IN with actuator,	1	2873480000



Industrial Ethernet – Passive components

Type	Version	Qty	Order No.
IE-FC-SET-IPDED003-KY-M	Service Interface for Cabinets	1	2460640000
IE-FCM-RJ45-C	Service Interface for Cabinets	1	1018790000
IE-PS-RJ45-FH-BK	RJ45 IP20 Connector	1	1963600000
IE-TO-RJ45-C	Outlet for Cabinet	1	8946920000
IE-C6FP8LD0002M40M40-D	Patchcord	1	1165940002





For further products, information, technical specifications or additional services, please visit our website:
www.weidmueller.com/controls



u-control web

Type	Version	Qty	Order No.
UC20-WL2000-AC	Controller, IP20, AutomationController, Web-based, u-control 2000 web, integrated engineering tool: u-create web for PLC - (real-time system) & IIoT applications, CoDeSys	1	1334950000
UC20-WL2000-AC-CAN	Controller, IP20, AutomationController, Web-based, u-control 2000 web, integrated engineering tool: u-create web for PLC - (real-time system) & IIoT applications, CoDeSys	1	2928020000



u-control M3000/M4000

Type	Version	Qty	Order No.
UC20-M3000	Controller, IP20, AutomationController, CoDeSys	1	2839150000
UC20-M4000	Controller, IP20, AutomationController, CoDeSys	1	2839160000



IoT-Gateways

Type	Version	Qty	Order No.
IOT-GW30	IoT Gateway, Fast Ethernet, IP20, -20 °C...60 °C	1	2682620000
IOT-GW30-4G-EU	IoT Gateway, Fast Ethernet, IP20, -20 °C...60 °C	1	2682630000



Industrial PCs

Type	Version	Qty	Order No.
UV20-B-IPC-2001.01	Industrial PC, IP20	1	2676370000
UV20-B-IPC-3000.01	Industrial PC, IP20	1	2676390000





I/O Systems

For future-oriented Industry 4.0 inside and outside the electrical cabinet, Weidmüller's flexible remote I/O systems offer automation at its best.

u-remote from Weidmüller forms a reliable and efficient interface between the control and field levels. The I/O system impresses with its simple handling, high degree of flexibility and modularity as well as outstanding performance.

The two I/O systems UR20 and UR67 cover all common signals and fieldbus/network protocols in automation technology.



For further products, information, technical specifications or additional services, please visit our website:
www.weidmueller.com/u-remote



Fieldbus coupler

Type	Version	Qty	Order No.
UR20-FBC-PN-IRT-V2	Remote I/O fieldbus coupler, IP20, Ethernet, PROFINET IRT	1	2566380000
UR20-FBC-PB-DP-V2	Remote I/O fieldbus coupler, IP20, PROFIBUS DP-V1	1	2614380000
UR20-FBC-EC	Remote I/O fieldbus coupler, IP20, Ethernet, EtherCAT	1	1334910000
UR20-FBC-MOD-TCP-V2	Remote I/O fieldbus coupler, IP20, Ethernet, Modbus/TCP	1	2476450000
UR20-FBC-EIP	Remote I/O fieldbus coupler, IP20, Ethernet, EtherNet/IP	1	1334920000
UR20-FBC-CAN	Remote I/O fieldbus coupler, IP20, CANopen	1	1334890000
UR20-FBC-DN	Remote I/O fieldbus coupler, IP20, DeviceNet	1	1334900000
UR20-FBC-CC	Remote I/O fieldbus coupler, IP20, CC-Link	1	2625010000
UR20-FBC-CC-TSN	Remote I/O fieldbus coupler, IP20, CC-Link IE TSN	1	2680260000
UR20-FBC-PL	Remote I/O fieldbus coupler, IP20, Ethernet, POWERLINK	1	1334940000
UR20-FBC-IEC61162-450	Remote I/O fieldbus coupler, IP20, Ethernet, IEC 61162-450	1	2661310000



Modules

Type	Version	Qty	Order No.
Digital input modules			
UR20-4DI-P	Remote I/O module, IP20, Digital signals, Input, 4-channel	1	1315170000
UR20-8DI-P-2W	Remote I/O module, IP20, Digital signals, Input, 8-channel, 2-conductor connection	1	1315180000
UR20-16DI-P	Remote I/O module, IP20, Digital signals, Input, 16-channel	1	1315200000
UR20-4DO-P	Remote I/O module, IP20, Digital signals, Output, 4-channel	1	1315220000
UR20-4DO-P-2A	Remote I/O module, IP20, Digital signals, Output, 4-channel, 2 A per channel	1	1315230000
UR20-8DO-P	Remote I/O module, IP20, Digital signals, Output, 8-channel	1	1315240000
UR20-16DO-P	Remote I/O module, IP20, Digital signals, Output, 16-channel	1	1315250000
UR20-8DI-P-3W	Remote I/O module, IP20, Digital signals, Input, 8-channel	1	1394400000
Analogue input modules			
UR20-4AI-UI-16	Remote I/O module, IP20, 4-channel, Analog signals, Input, Current/Voltage, 16 Bit	1	1315620000
UR20-4AI-HART-16-DIAG	Remote I/O module, IP20, Analog signals, Input, 4-channel, HART®	1	2617520000
Analogue output modules			
UR20-4AO-UI-16	Remote I/O module, IP20, Analog signals, Output, 4-channel, Current/Voltage	1	1315680000
UR20-2AO-UI-16	Remote I/O module, IP20, Analog signals, Output, 2-channel, Current/Voltage	1	2705630000
Temperature modules and potentiometer input module			
UR20-4AI-RTD-DIAG	Remote I/O module, IP20, Analog signals, Temperature, RTD	1	1315700000
UR20-4AI-TC-DIAG	Remote I/O module, IP20, Analog signals, Temperature, TC	1	1315710000
Power-feed modules			
UR20-PF-I	Remote I/O module, IP20, Power supply unit, 24 VDC-Input	1	1334710000
UR20-PF-O	Remote I/O module, IP20, Power supply unit, 24 VDC-Output	1	1334740000
Safe I/O modules and safe power-feed modules			
UR20-4DI-4DO-PN-FSPS-V2	Remote I/O module, IP20, Safety, Digital signals, 4-channel	1	2464570000
UR20-8DI-PN-FSPS-V2	Remote I/O module, IP20, Safety, Digital signals, 8-channel	1	2464590000
Digital counter- and communication- modules			
UR20-1COM-232-485-422-V2	Remote I/O module, IP20, 1-channel, RS232/RS485/RS422 communication, PUSH IN connection	1	2826800000





Measuring and Monitoring Systems

Many companies would like to save energy at source, use energy more efficiently and maximise the availability of energy networks. This not only shows responsibility, but is also recommended for economic reasons.

Weidmüller energy meters can do far more than just measure the consumption of electrical energy. For example, the basic parameters for energy quality can also be determined or the currents of all conductors can be analysed individually or differentially - e.g. with our Energy Meter. This allows you a quick status overview of the electrical energy in your production facility. This applies both in relation to efficient usage, as well as to quality, stability and availability.



For further products, information, technical specifications or additional services, please visit our website:
www.weidmueller.com/measuring-and-monitoring



Energy meters – BasicLine

Type	Version	Qty	Order No.
EM220-RTU-4DI2DO-GW	Power measurement/display for 1-, 3-phase mains, use of CT, pulse output, digital input/output,, Modbus RTU, Modbus TCP/IP, Gateway	1	7760051006
EM122-RTU-2P	Power measurement/display for 1-, 3-phase mains, 100 A, direct measurement, pulse output,, Modbus RTU	1	7760051003



Energy meters – ValueLine

Type	Version	Qty	Order No.
ENERGY METER 750-230		1	2540910000



Energy Analyser

Type	Version	Qty	Order No.
ENERGY ANALYSER 750-24		1	2534160000



Energy / Data Logger

Type	Version	Qty	Order No.
ENERGY LOGGER D550		1	2425520000



Mechanical- & electronic sensors - u-sense vibration

Type	Version	Qty	Order No.
US67-V1T-BLE	Smart vibration sensor	1	2751260000



ResMa® – Resource Management for Process and Energy Optimisation

Type	Version	Qty	Order No.
Resma Base Package	Create the necessary transparency with ResMa® Basic as energy management software to make optimal use of your data and uncover potential.		Please contact us
ResMa® Energy Package	The ResMa® Energy Package is a DIN EN ISO 50001 certified energy management system that supports you as energy management software.		Please contact us
ResMa® Production Package	The ResMa® Production Package is a DIN EN ISO 50001 certified energy management system that supports you as energy management software.		Please contact us
Note			For more information, please visit our website www.weidmueller-gti-software.com



Weidmüller – Your partner in Smart Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Smart Industrial Connectivity.

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