METZ CONNECT

# Industries

METZ CONNECT highlights at a glance





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# We connect what the future needs.



Since 1976, METZ CONNECT, a medium-sized German family company, has demonstrated a profound sense of responsibility towards its employees, market partners, and the environment. Around 900 employees at the Blumberg (headquarters), Hungary and China locations work according to certified quality standards – with a clear focus on sustainable, efficient processes.

Innovation, high development and manufacturing expertise, as well as close customer partnerships characterize our way of working. From idea to series production, we combine know-how with implementation strength. Highest quality standards and the continuous development of our employees are the basis for sustainable, long-term success.

Our solutions ensure smooth data and signal flows worldwide – from the circuit board to the infrastructure of buildings, industrial plants and data centers. We stand for first-class contact technology and reliable connecting elements in the electrical and electronics sector and create reliable connections where they count.

As a family company, we see ourselves not merely as a supplier but as a reliable partner: We listen, think ahead and deliver solutions that will still hold up tomorrow – robust, secure and future-proof. Together with our customers, we shape progress and maintain our leading role in the market for connection technologies.


METZ
CONNECT

# Product Areas

## Innovation and consistency – from the circuit board to the end device

### Data Network Technology



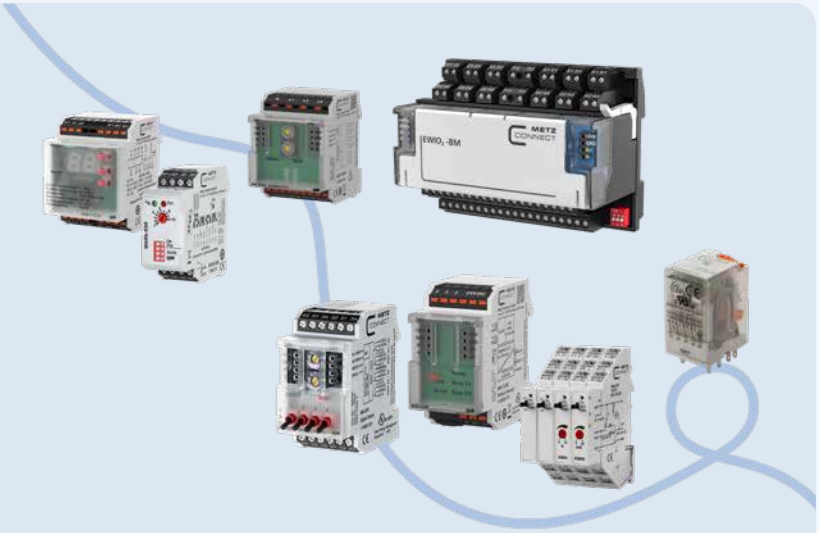
Copper and fiber optic components for structured network cabling.

### Industrial Data & Signal Transmission



Stable data transmission and protection in demanding industrial environments.

## Automation



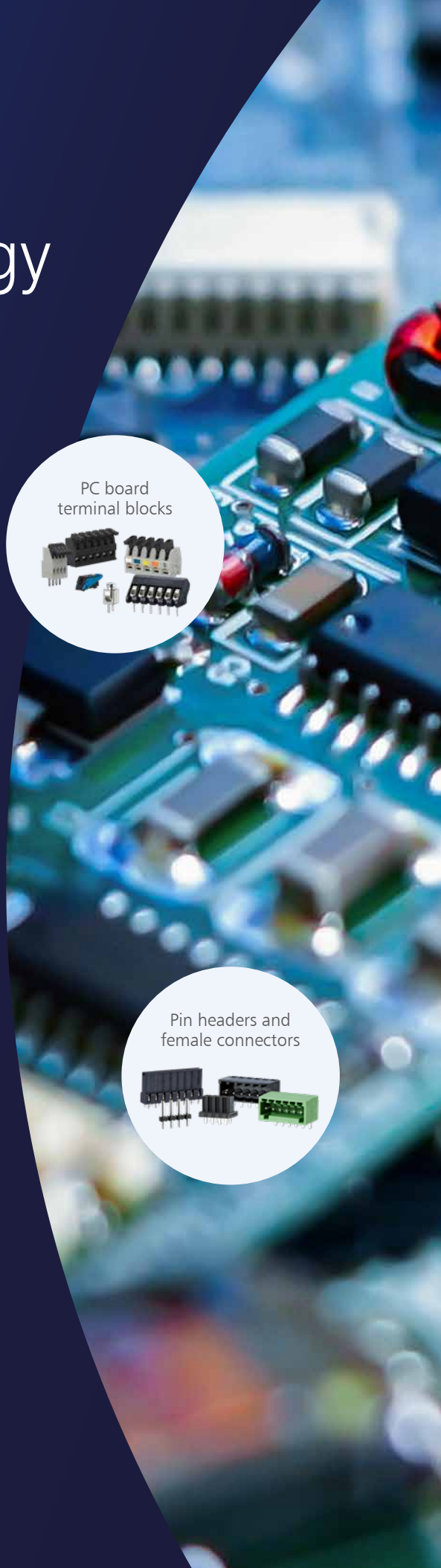
Reliable connections, precise control and intelligent components for building, process automation and monitoring.

## Device Connection Technology



Circuit board connection technology for connecting devices and controllers in building automation.

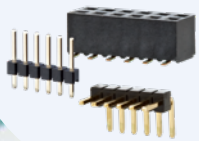
# Connection technology for devices






METZ CONNECT has been successfully manufacturing and selling terminal blocks for PC boards worldwide for decades. The portfolio includes products for signal and data flows and medium control currents. From a single source – whether through joint partnership developments, design-in with existing or modified products, or catalogue items – you will find your PC board connection technology with us.

Board-to-board connectors



Single Pair Ethernet – SPE



PCB Sockets / Connectors



Connection technology M12



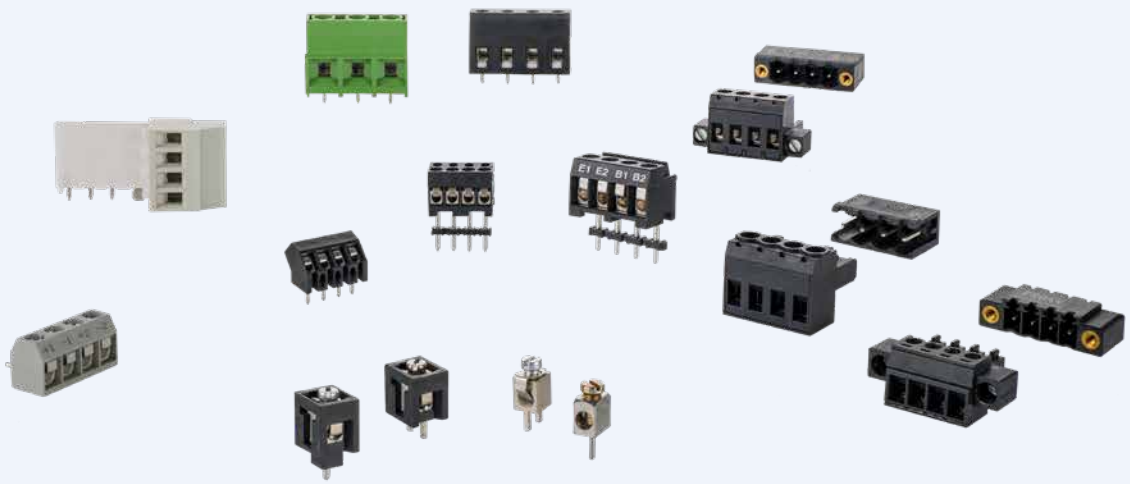
# Screw terminal blocks

The connection technology of screw terminal blocks, proven millions of times, is based on a metallic clamping body installed in an insulating body. The stripped wire is clamped and contacted directly or indirectly by a screw. An integrated wire protection or lifting system protects the wire during clamping. The screw terminal blocks are suitable for solid wires and stranded wires with ferrules. Depending on the design, they are suitable for connection cross-sections from 0.08–4 mm$^2$. Screw terminal blocks allow two conductors to be connected in one clamping chamber and are characterized by good contact quality with low heat generation.

## Individualization options

› Color › Printing › Soldering variants › PIN lengths





# Spring clamp terminal blocks

The product family consists of terminal blocks based on a spring clamp connection. By spring clamp connection, we mean an electrical connection produced by clamping a single stripped conductor by means of a spring. It is suitable for solid wires and stranded wires with a nominal cross-section of 0.08–2.5 mm² and enables direct clamping without conductor preparation, direct clamping with splice protection, and indirect clamping via a ferrule or pin cable lug.

## Individualization options

- Color
- Printing
- Soldering variants
- PIN lengths



# Ethernet terminal blocks

PC board terminal blocks instead of connectors work for devices that are installed quickly, do not require frequent pluggable/disconnectable connections, and are generally installed in one location long term – such as sensors, luminaires and IP cameras.

PC board terminal blocks are, and increasingly will be, an advantageous alternative to customary Ethernet connectors and connection technologies.





## Ethernet terminal block solutions

Different applications require corresponding mechanical requirements, data transmission rates and PoE power supply. Accordingly, different connectors are available.

| | Description | Properties | Cable Construction |
|---|---|---|---|
|  | Fast Ethernet & Industrial Ethernet | 2 pairs; 4 wires; 10/100 MBit/s; PoE* (15.4 W); PoE+* (30 W), up to 100 m |  |
|  | SPE Single Pair Ethernet | 1 pair; 2 wires; 10/100/1000 MBit/s; Power over Data Line (60 W), up to 1,000 m |  |

*Switching states must be changed for potential-free systems.



## Benefits

- Easy handling, color coding
- Easy installation, without special tools
- Pluggable or permanently soldered
- Wide coverage of conductor cross-sections
- Various designs
- Ideal for compact devices with limited space
- Cost-effective solutions
- Component reduction
- Data transmission properties for up to 10 GBit/s Ethernet
- One-, two- and four-pair Ethernet
- PoE, PoE+, PoDL and more*
- Hybrid system for Ethernet and power supply possible
- Ideal for Ethernet APL
- SPE-ready for up to 1,000 m (AWG 16)

# Pin headers and female headers

## Pin headers

To match the terminal blocks, METZ CONNECT offers a broad range of pin headers.

We offer pin headers for standard soldering processes as well as reflow-capable versions in THR or SMD/SMT, as loose bulk goods or in taped form (Tape & Reel).

Pin headers are available in various pitches with different numbers of poles for vertical or horizontal installation. For individualization, we print the pin headers to your requirements and also offer various basic colors.

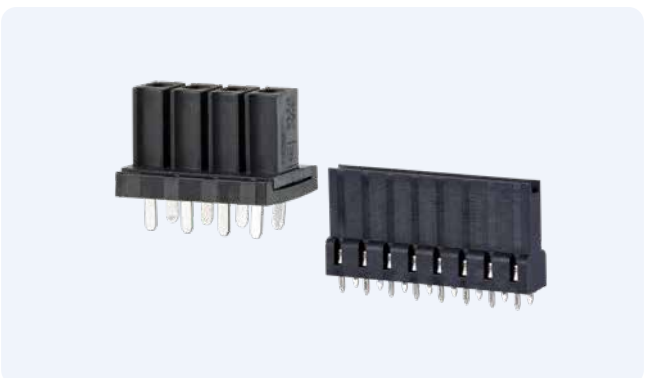
## Female headers

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# Board-to-board connectors

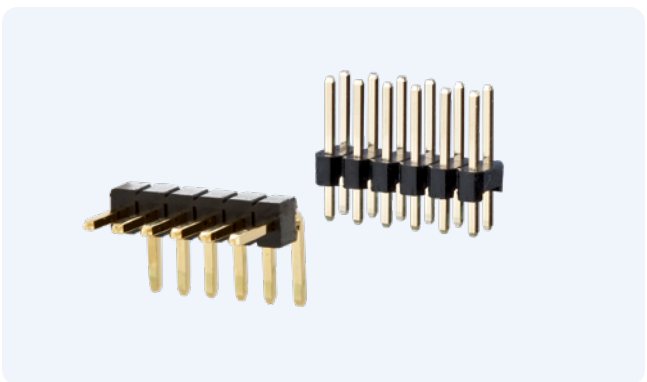
## Pin headers

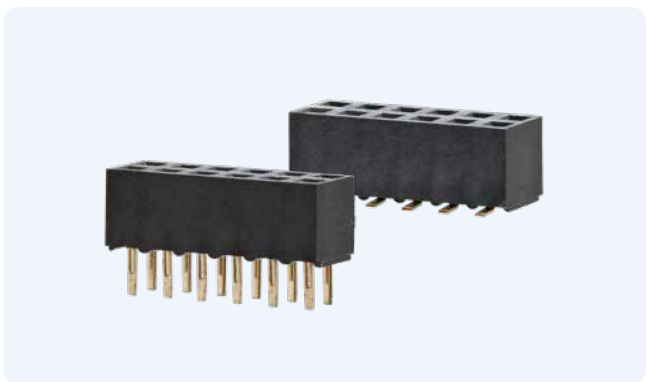
For connecting assemblies to a PC board or for connecting PC boards to each other, we offer a wide variety of board-to-board pin headers. These B2B pin headers are available in THR and SMT versions. SMT versions in Tape & Reel packaging are available on request.

## Female headers

The board-to-board female header is the counterpart to the B2B pin header. The female header contains the spring contacts that match the pin header. B2B female headers are available in THR versions.







# PC board jacks / plugs

## RJ45

After starting out in telephony in the 1980s, RJ45 gradually transformed data technology and today is indispensable in data centers, building technology and cabling, as well as in everyday devices. Proven billions of times, it covers a major proportion of all data communication interfaces – independently of applications and specific manufacturers or interest groups. We offer the ideally matched solution for a wide range of requirements and applications.

## RJ12 / RJ11

In addition to connection solutions for RJ12 with THR, we also offer SMT-capable RJ12 connection jacks (Surface Mount Technology) for device connection and RJ11 connection jacks for PC boards.







## USB

Our range includes USB connection jacks in Through Hole Reflow and Surface Mount Technology in Type A and Type B jack versions as well as Micro Type B plug versions.

## M12

The M12 connection is used at the field level and in Industrial Ethernet. The robust circular connector with a metric thread is available in various versions, codings and degrees of protection. Fully shielded versions are available for EMC-sensitive applications, reliably connecting the cable shield to the device housing. M12 is also characterized by high mechanical strength and resistance to vibration and impact.

The connectors in this product range with a 12 mm metric thread are now used worldwide in automation and sensor technology. They are used to transmit data, signals and fieldbuses.







# Connection technology M12

The connection technology M12 product family consists of X-, D- and A-coded PC board jacks and inserts, plugs for field assembly, cable assemblies and panel feed-throughs for electrical cabinets, as well as M12 X-coded/D-coded jacks for field assembly, with or without flange.



## M12 PC board jacks and inserts

The M12 connector is an industrial connector used at the field level and in Industrial Ethernet. It is a circular connector with a metric thread developed in several variants and codings for different degrees of protection. Fully shielded, EMC-compatible versions are available for applications in electrically sensitive environments. The contact carrier is surrounded by a metallic shield sleeve connected to the cable shield on one side and to the locking screw on the other. This ensures that the shield connection is routed to the device housing via the connector. Other characteristics are high mechanical strength and resistance to mechanical influences and vibrations.

- Coding: A-, D-, X-coded
- Number of poles: 2, 3, 4, 5, 8



## M12 plugs and jacks for network cabling

For communication between devices in harsh environments, for example in industrial applications, METZ CONNECT offers various M12 circular connectors for data communication. These include M12 circular connectors with D coding for two-pair twisted-pair connections and X coding for four-pair twisted-pair connections. The four-pole D-coded plug, with a transmission rate of 100 MBit/s, is suitable for standard data transmission rates in Industrial Ethernet. For higher data transmission rates (e.g. Gigabit Ethernet), eight-pole X-coded M12 plugs can be used, as they ensure a data transmission rate into the gigabit range. The robust M12 plugs have very high mechanical and electrical strength and, when connected, are resistant to dirt and moisture (IP67). This ensures safe and reliable contacting and error-free data transmission.

- Coding: D-, X-coded
- Design:
  - jacks (with and without flange)
  - plugs



## M12 Industrial Ethernet connection cables, D- and X-coded

Shielded M12 Industrial Ethernet connection cables for safe and industry-standard data transmission in automation and fieldbus technology. Various cable types for increased mechanical loads such as abrasion, bending, vibrations, drag chain operation and torsion, in various performance classes Cat.5 (100 MBit/s) and Cat.$6_A$ (10 GBit/s), with D- and X-coded connectors.

Cable types:

- AWG 22/19 PUR $5_e$
- AWG 22/7 PUR $5_e$
- AWG 24/7 PUR $6_A$
- AWG 26/19 PUR $5_e$
- AWG 26/19 PUR $6_A$
- AWG 26/7 PUR $6_A$

Interfaces:

- M12 jack
- M12 plug
- angled M12 plug
- RJ45 plug
- free cable end



## M12 sensor/actuator connection cables, A-coded

M12 sensor/actuator connection cables with overmolded M12 A-coded connectors meet the typical requirements of the automation industry. Sensor plugs are available in various designs and with various numbers of poles. The diverse range of sensor plugs is supplemented by 360° shielded and unshielded versions. All connection cables are available in PUR and PVC cable quality.

Cable types:

- PUR shielded/unshielded 4, 5, 8 wires
- PVC shielded/unshielded 4, 5, 8 wires

Interfaces:

- M12 jack
- M12 plug
- angled M12 plug
- RJ45 plug
- free cable end







You can create your cable quickly and easily online using the configurator. Here you will find all item numbers and technical information.

www.metz-connect.com/configurator-m12

# M12 Push-Pull connectors

## Plug in. Lock. Done.

Overmolded M12 connectors with internal locking in accordance with IEC 61076-2-010 for fast, safe and reliable connections in industrial applications. The tool-free Push-Pull technology reduces assembly and service times. Audible and tactile feedback indicates secure locking and supports reproducible connection results.





### Advantages of our solution

- Fast tool-free installation
- Audible and tactile locking feedback
- Robust, overmolded cable assemblies
- Shielded and unshielded versions
- Degrees of protection: IP65, IP67, IP68 (2m/48h)
- Suitable for many applications: factory automation, machine and plant construction, mobile automation and robotics, intralogistics, rail and transport technology





# Suitable for your application

Whether sensor and actuator signals, fieldbus or Industrial Ethernet: with M12 Push-Pull connectors, METZ CONNECT offers suitable solutions for a range of industrial applications. Available codings and different cable qualities enable selection tailored to requirements.

## The right solution for every environment

From conventional machine cabling to highly flexible applications in robotics and mobile automation: the assembled connectors are matched to different requirements and operating conditions. Suitable versions are also available for data-intensive Ethernet communication and applications in rail and transport technology.

## Standard and customized

METZ CONNECT combines an extensive standard portfolio with the option to realize customer-specific variants and individual cable solutions. Together with you, an M12 Push-Pull cable assembly is created that optimally matches your application, environment and assembly requirements.

Find more information and suitable cable assemblies in the METZ CONNECT cable configurator.

www.metz-connect.com/configurator-m12-push-pull

# Cabling solutions for networks







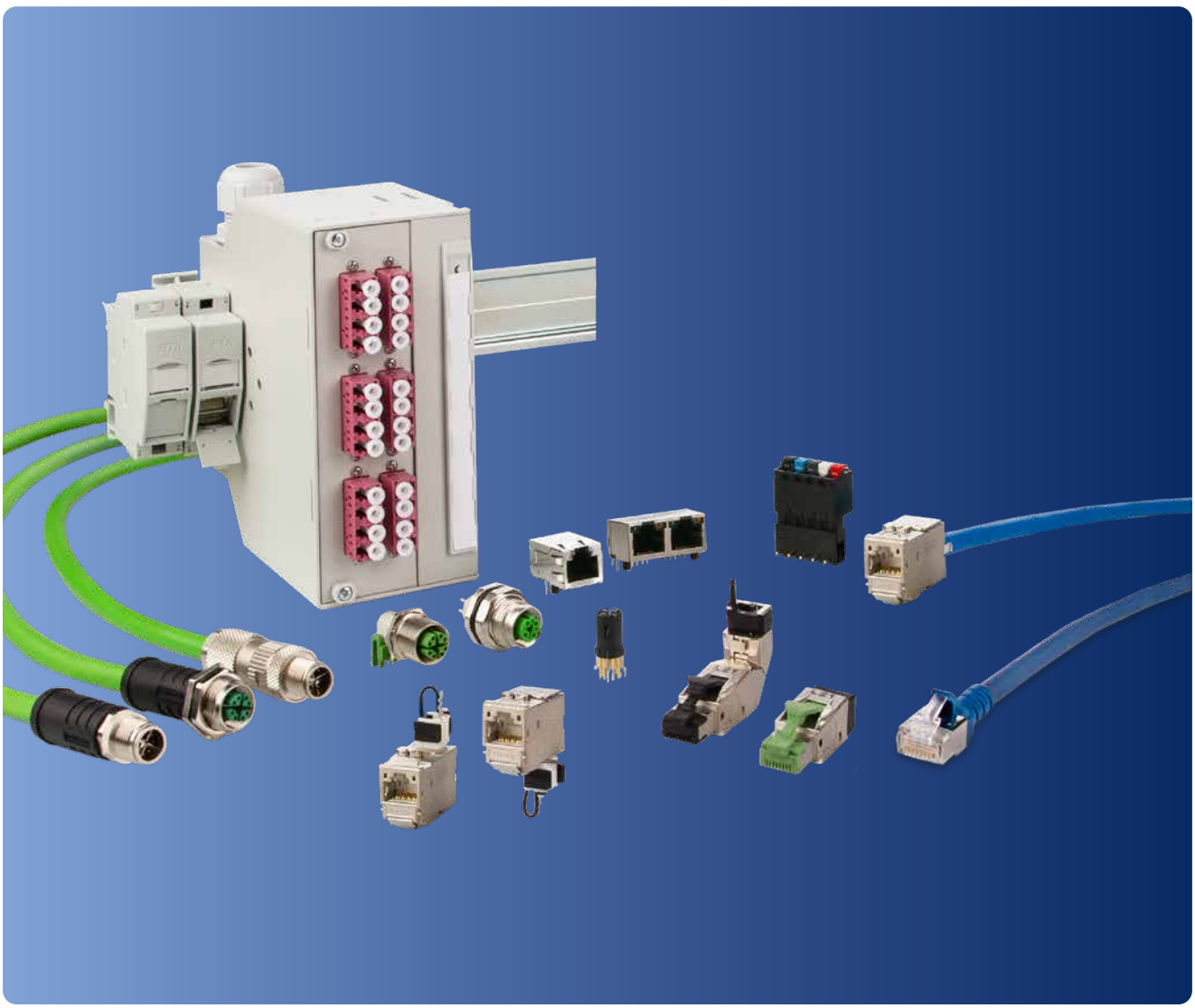


Highly specialized, internationally standardized and high-performance network solutions in copper and fiber optic technology impress with convenient installation, maximum quality and excellent system capability across all relevant performance classes.


Data Network Technology for Industrial Environments
Industrial Cables
DIN rail housings

# Data network technology for industrial environments

Highly specialized, internationally standardized and high-performance network solutions in copper and fiber optic technology impress with convenient installation, maximum quality and excellent system capability across all relevant performance classes. They are used in structured building and industrial cabling and in data centers. The growing demand for data transmission volumes requires ever greater performance and consistency of data networks. IT technologies can be found in many areas of application in buildings, data centers and industrial plants.



## Cable assemblies and distribution technology for fiber optic network cabling

For optical transmission, we offer connection technology in singlemode (OS2) and multimode (OM3, OM4, OM5) in protection classes IP20 and IP67. Distributors are available in various forms such as 19-inch patch panels, wall distributors and DIN rail housings.

- OpDAT FAST™ Hybrid – connector kits for field assembly for SM and MM
- OpDAT MPO/MTP® – cable assemblies
- OpDAT REGpro
- OpDAT Consolidation Point
- OpDAT VIK – pre-assembled installation cables
- OpDAT patch cords
- OpDAT patch panels
- OpDAT VGAD & VADT – pre-assembled connection outlets

## RJ45 plugs and jacks

The portfolio of RJ, USB, M12, coaxial and fiber optic connectors for cabling systems offers a wide variety of plugs and jacks in various performance and protection classes for copper and fiber optic connections.

- 10/100 MBit, 10 GBit and 25 GBit Ethernet systems
- Easy installation without special tools
- Robust zinc die-cast housing
- Suitable for PROFINET, EtherNet/IP, EtherCAT, etc., remote powering (PoE, PoE plus and 4PPoE), HDBaseT, AV over IP, SAT-IP and much more







## Patch panels and patch cords

For distribution in structured cabling, we offer patch panels, module frames or assembly frames with matching accessories for copper and fiber optic connections in modular or compact design, in different performance classes, rack units and with various port counts.

Patch panels:

- For copper and fiber optic connections
- Modular or compact design
- Cat.5, 5e, 6, $6_A$
- DCCS Data Center Compact Solutions for up to 48 ports in one rack unit

Copper patch cords:

- Ethernet Cat.$6_A$ – up to 10 GBit Ethernet
- Ten colors, lengths from 0.5 m to 30 m

Fiber optic patch cords:

- OM3, OM4, OM5, OS2
- Lengths from 0.5 m to 100 m
- Fig. 8 and Fig. O
- LC, SC, ST, FC, E2000, MTP®

## Subscriber connections – connection housings for copper and fiber optic connectors

- Connection outlets
- DIN rail adapters
- Underfloor systems
- Surface-mounted wall distributors
- Consolidation Points







# IP-protected solutions

For RJ45 and fiber optic connectors, METZ CONNECT offers IP-protected empty housings for wall/surface mounting, as freely routed cable couplings, and flanges as housing-wall feed-throughs in industrial variants V1, V4, V5, V6 and V14.



The STEADYTEC® technology brand stands for forward-looking connection technology in data, energy and signal transmission. Created by the industry's three leading companies, it forms the basis for reliable, user-oriented and standards-compliant solutions in harsh industrial environments. According to the Fit-for-All principle, simply select the required plug and flange housing with the desired inserts.

## Plug inserts



E-DAT Industry RJ45 field plug insert*
1401400810-I



E-DAT Industry RJ45 field plug insert PROFINET*
1401400810PI



E-DAT Industry RJ45 plug insert*
1401500810-I

## Plug housings / flange housings



Industry IP67 V1 metal plug housing*
1401015000ME
1401025000ME (bp)



Industry IP67 V1 plug housing*
1401015002KE
1401025002KE (bp)



Industry IP67 V4 plug housing*
1401045002KE
1401055002KE (bp)



Industry IP67 V5 metal plug housing*
1401065000ME



Industry IP67 V14 plug housing*
RJ45 – 14010850C0ME



Industry IP67 V1 metal bulkhead*
1401013300ME



Industry IP67 V1 bulkhead*
1401013302KE



Industry IP67 V4 bulkhead*
1401043302KE



Industry IP67 V5 metal bulkhead*
1401063300ME



Industry IP67 V14 bulkhead*
14010833C0MN

## Flange inserts



E-DAT Industry RJ45 coupler insert*
1401200810M



E-DAT Industry RJ12 coupler insert
1401A00810KI



E-DAT Industry C6A UTP coupler insert
1401B00810KI



E-DAT Industry RJ45 field jack*
1401100810MI (T568A)
1401800810MI (T568B)
1401900810MI (Profinet)

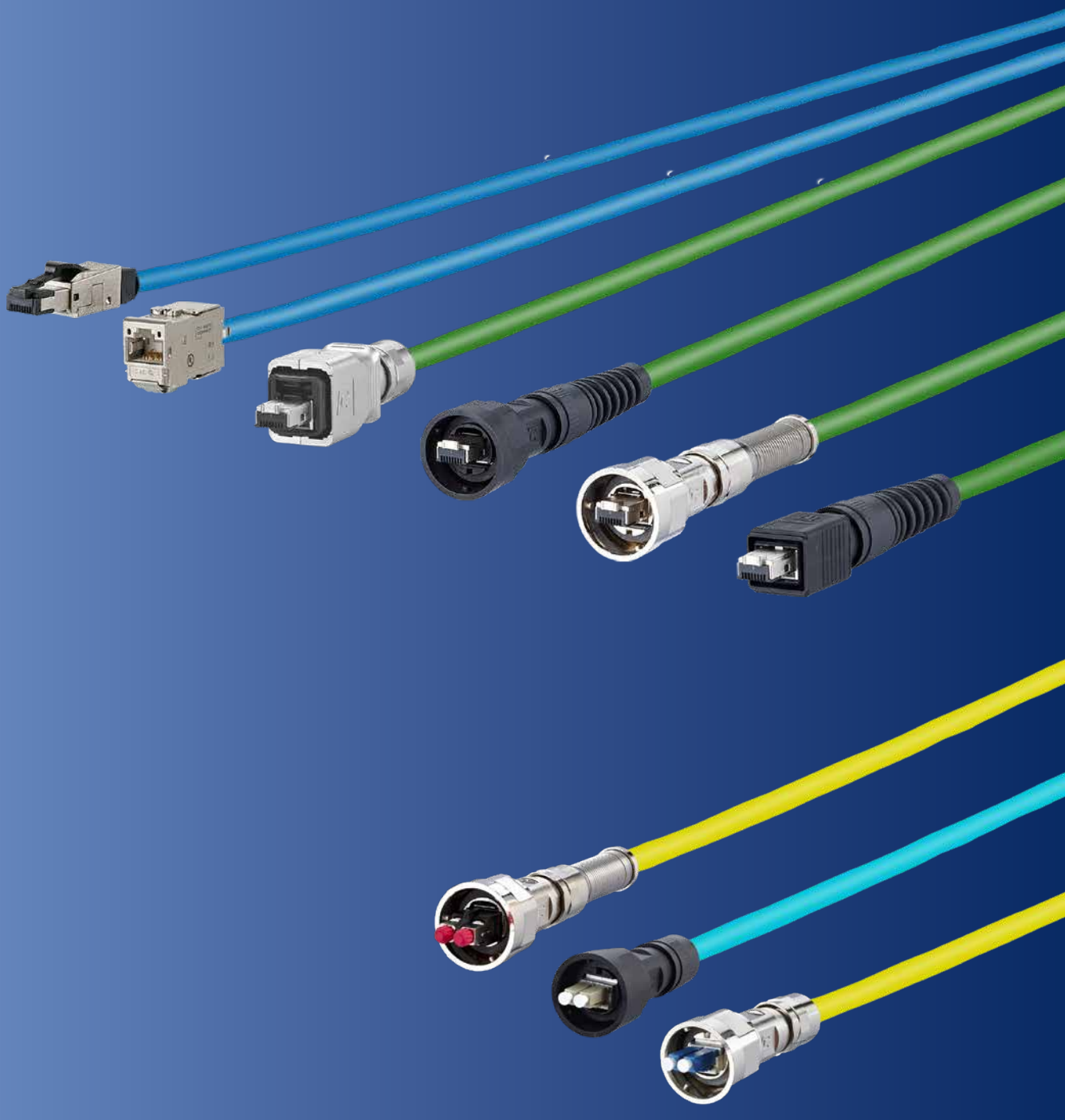


E-DAT Industry USB 3.0 A coupler insert*
1401U10812KI



E-DAT Industry USB 3.0 A coupler insert*
1401U10812KI

* Components with STEADYTEC® Reliable Technology



# Industrial cables

The worlds of office and industrial cabling are increasingly converging. While Ethernet as a standard for data and voice transmission used to be common only in office environments, it is now increasingly used for industrial applications as well. The functionality and simplicity of Ethernet/IP are based on the ability to combine real-time performance with the resilience and security of conventional bus solutions. In industrial environments, however, the network encounters interference factors that can have a significant impact on transmission quality. The risk of interference due to vibrations, dirt and moisture is particularly high at connection points.

In this METZ CONNECT product area, users can choose from a broad range of copper and fiber optic data cables with IP67-protected connectors. Both individual components for on-site installation and industrially manufactured copper and fiber optic patch cords are available – for 100% reliable connections in the electrical cabinet, floor distributor, machine distributor or Ethernet device.

## Applications in industry

Our high-quality cables are used wherever high-speed data transmission of up to 10 GBit/s is required in harsh environments. This is where industrial cables with IP-protected connectors fully exploit their advantages in terms of mechanical, chemical and climatic resistance. In addition to voice and data communication, our solutions are suitable for the remote powering of various end devices by means of Power over Ethernet.



Further cable lengths on request and via our cable configurator:

www.metz-connect.com/configurator

# Industrial automation





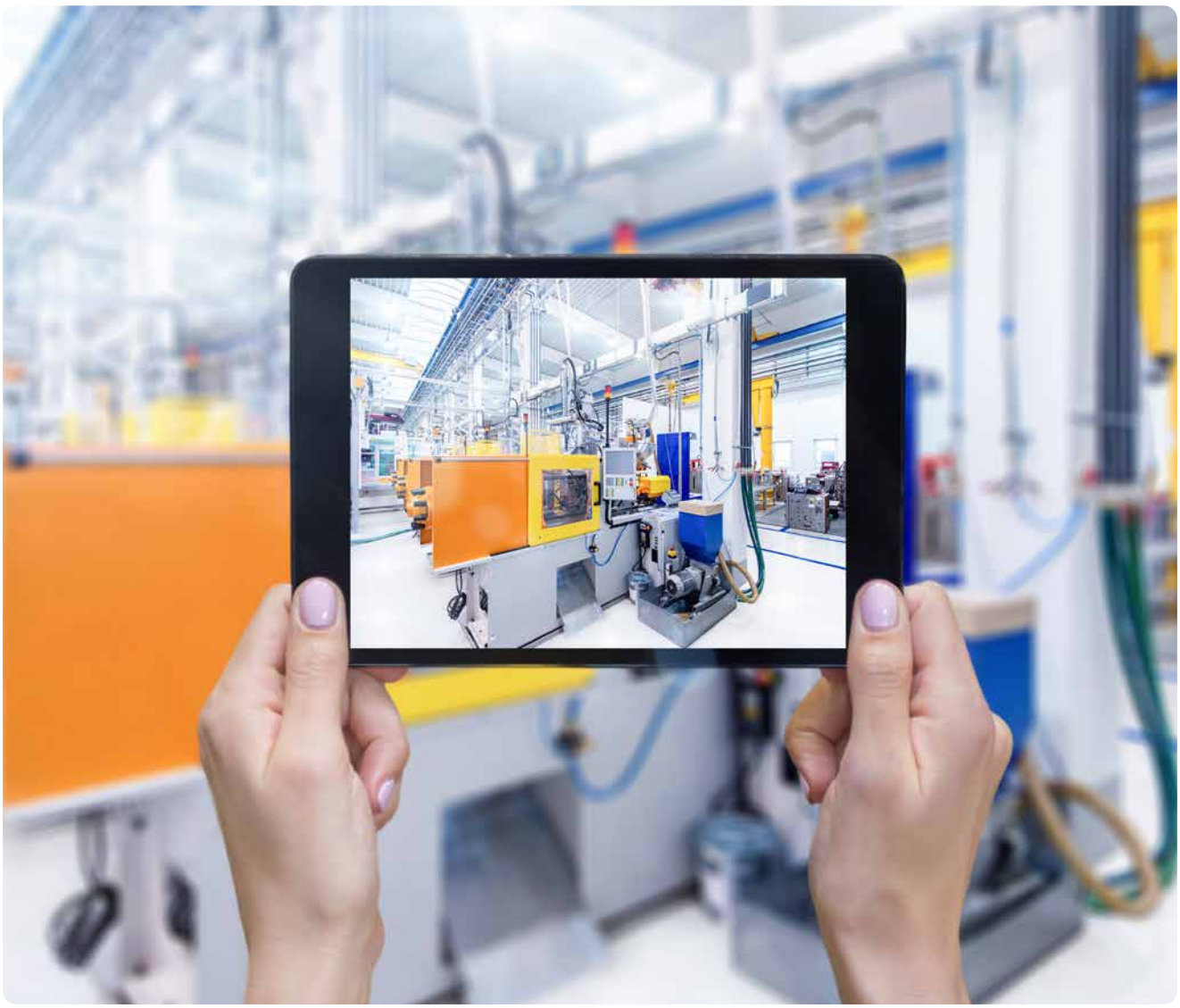
## With METZ CONNECT from the field level with sensors and actuators to the data center

In the market segments of industrial electronics, data and communication technology, and building technology, METZ CONNECT offers consistent systems for secure and smooth data flow – from the PC board via connectors, cables and patch panels to the infrastructure environment. This enables METZ CONNECT to guarantee holistic and transparent communication in all application fields – without system discontinuities or performance losses. In addition to a large variety of different and future-oriented connection technology, METZ CONNECT also offers cross-range and customer-specific system solutions.



# System components for electrical cabinet applications





## Measurement and Monitoring Relays

The METZ CONNECT monitoring relays serve to protect people and machines and control electrical processes depending on electrical or physical variables.

- Current monitors for universal use
- Phase monitors to protect against destruction/damage to plant components
- Phase sequence relays for monitoring the rotating field
- Asymmetry relays for reliable detection of phase failure
- Multifunctional three-phase monitors
- Level relays for fill level monitoring

## Interface Modules

The METZ CONNECT interface modules form the separation between the logic level and the load level in control and automation technology.

- Universally applicable coupling modules
- Sensor or actuator interface modules as optocouplers, potential distributors, diode modules, signaling modules, threshold switches, analog encoders, analog-to-digital converters and as potential isolators
- High-performance, compact, pluggable 14-pin industrial relays







## Time relays

A time relay is a special version of a relay which can be used, among other things, in control and automation technology to achieve switch-on or switch-off delays. The product spectrum offers time relays with multiple functions and adjustable time ranges, as well as relays with special functions such as on-delay, off-delay, interval-on, flashing and pulse generation.

## Energy controlling

For energy and consumption monitoring as well as data monitoring in buildings and industrial plants and systems, high-performance Linux-based data loggers are used. The multiprotocol capability of the data logger is enabled by the many connections and interfaces (TCP/IP, BACnet/IP, Modbus TCP, Modbus RTU, M-Bus, S0 pulses, digital and analog inputs and outputs). It supports, for example, your tasks in energy management systems in accordance with DIN EN ISO 50001 to increase energy efficiency by integrating measurement, control and regulation technology and HVAC technology into the building management system. An easy-to-use web server and the Node-RED software platform are integrated for configuration and visualization.








# Energy Controlling

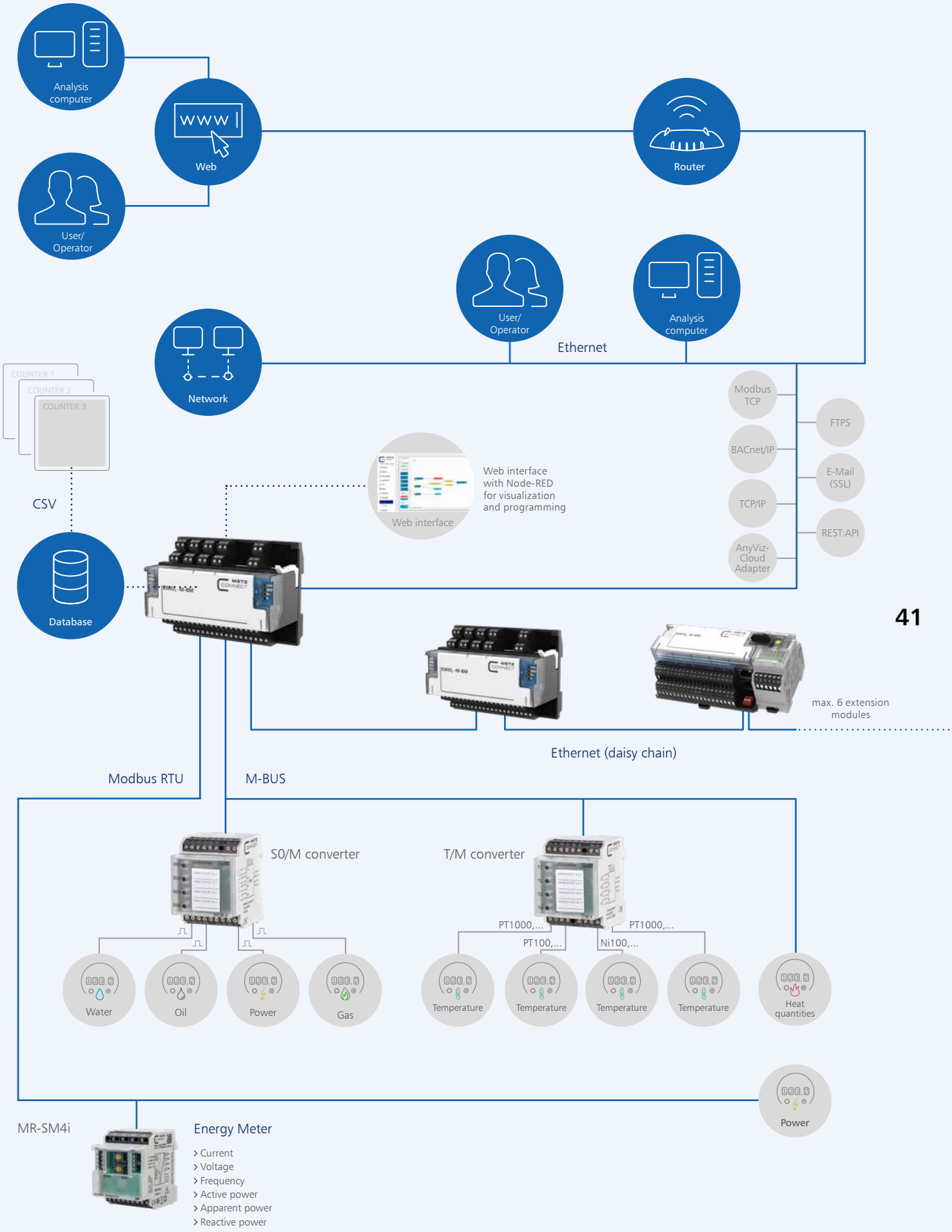





The $EWIO_2$-M is a powerful data logger for energy and consumption recording as well as data monitoring in buildings, as well as in industrial plants and systems. The multi-protocol capability of the smart metering gateway is enabled by the many connections and interfaces and supports you in your tasks in energy management systems according to DIN EN ISO 50001 to increase energy efficiency through the integration of MSR and HVAC technology into the building management system. With the $EWIO_2$-M, you combine the functions of energy monitoring, building and industrial automation in one device.

The parameterization, configuration and commissioning of the system is carried out via an intuitively operated web interface with a platform-independent web browser. Various meters, such as electricity, water, gas, heat or other media, can be connected and read with the M-Bus and Modbus RTU interface. The integrated digital and analog inputs and outputs of the $EWIO_2$-M are designed to connect sensors and actuators for various tasks in building or industrial automation.

- Simple, fast cabling with bridge plug
- Connection of extension/function modules
- Pushbutton and LEDs for manual operation and display
- Multi-I/O with 24 digital and analog inputs and outputs
- Compact design for installation in a distribution board with 45 mm front height
- Minimum space requirement in the switch cabinet 125 mm width (7 HP)
- Installation and maintenance-friendly with hardware management, electronics – detachable from termination unit
- M-BUS interface with integrated level converter for 80 M-Bus loads
- Reading of M-Bus meters (parameterizable read-out interval)
- 1 x Modbus RTU interface for 32 participants
- Controller with ARM Cortex-A7 dual core processor 1GHz, 512 MB RAM and 4 GB Flash
- 2-port Ethernet switch with Daisy Chain function
- Integrated graphical programming/visualization tool

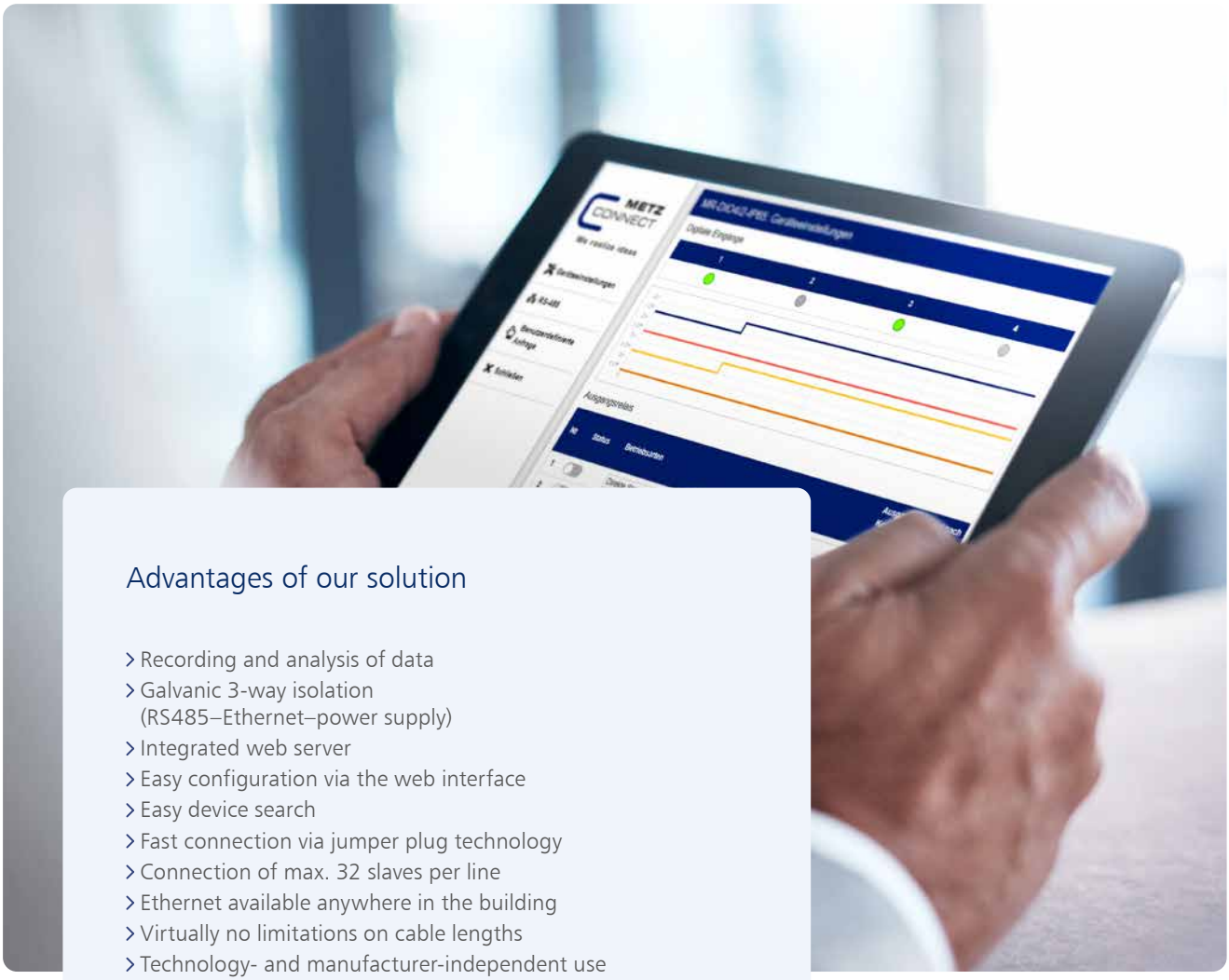

Analysis computer
Web
Router
User/ Operator
User/ Operator
Analysis computer
Ethernet
Network
COUNTER 1
COUNTER 2
COUNTER 3
CSV
Modbus TCP
FTPS
BACnet/IP
E-Mail (SSL)
TCP/IP
REST:API
AnyViz-Cloud Adapter
Web interface
Web interface with Node-RED for visualization and programming
Database
max. 6 extension modules
Ethernet (daisy chain)
Modbus RTU
M-BUS
S0/M converter
T/M converter
PT1000,...
PT100,...
PT1000,...
Ni100,...
Water
Oil
Power
Gas
Temperature
Temperature
Temperature
Temperature
Heat quantities
Power
MR-SM4i
Energy Meter
› Current
› Voltage
› Frequency
› Active power
› Apparent power
› Reactive power

# Routers/gateways

## For connecting fieldbus components to the network

In many building automation projects, customers require all automation components within the building to be seamlessly connected to structured network cabling.






### Advantages of our solution

- Recording and analysis of data
- Galvanic 3-way isolation (RS485–Ethernet–power supply)
- Integrated web server
- Easy configuration via the web interface
- Easy device search
- Fast connection via jumper plug technology
- Connection of max. 32 slaves per line
- Ethernet available anywhere in the building
- Virtually no limitations on cable lengths
- Technology- and manufacturer-independent use

## Modbus Gateway MR-GW

Fieldbus components such as temperature sensors or measuring devices generally have a Modbus RTU interface, which is integrated into the automation level by means of a Modbus TCP controller. In many applications, using a controller is oversized, in addition to requiring complex programming and expensive hardware. The optimal solution is to use a Modbus gateway. Acting as a protocol converter, the Modbus gateway enables easy integration of Modbus RTU slaves into a Modbus TCP network. The METZ CONNECT Modbus Gateway MR-GW helps integrate Modbus RTU devices into a Modbus TCP network and offers a very simple and cost-effective way for Modbus TCP clients to communicate with one or more Modbus RTU slaves.

## BACnet/IP and BACnet/SC routers

METZ CONNECT BACnet routers BMT-(F)-RTR connect BACnet MS/TP with BACnet/IP. The BACnet/SC router BMT-(F)-RTR/SC ensures encrypted data in critical infrastructures – BACnet/SC is the standard for secure BACnet communication. Where a Primary Hub manages the BACnet/SC router, it can be used in existing IT network structures. Existing IT and Internet infrastructure can therefore be used. An integrated web server is used for configuration. The BACnet/SC router BMT-(F)-RTR/SC offers a high degree of flexibility.

BACnet MS/TP, BACnet/IP and BACnet/SC can be connected and routed simultaneously – future-proof and protecting your investment. Secure your building automation with METZ CONNECT BACnet routers: the BMT-(F)-RTR/SC series seamlessly connects MS/TP devices with BACnet/IP and BACnet/SC and protects sensitive data. Discover the innovation that protects against hacker attacks and equips you for future developments. METZ CONNECT – your partner for secure building automation.







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