You want to make automation easier and more efficient
u-remote maximises your performance
Let’s connect.
More Performance.
Simplified.

Cost-saving and flexible system configuration

Easy to install

Improved system availability

Reliable start-up
Making machine automation more productive

u-remote combines powerful technologies with efficient processes

Weidmüller u-remote – our innovative remote I/O concept with IP 20 which focuses purely on user benefits: tailored planning, faster installation, safer start-up, minimized downtimes. For considerably improved performance and greater productivity.

Reduce the size of your cabinets with u-remote, thanks to the narrow design and the need for fewer power-feed modules. Our u-remote technology also offers tool-free assembly, while the modular design and integrated web server speed up installation, both in the cabinet and machine. Status LEDs on the channel and each u-remote module enable reliable diagnosis and rapid service.

This and many other amazing ideas boost the availability of your machines and systems. And ensure smooth processes too. From planning to operation. Our formula: "More Performance. Simplified. u-remote."
A flexible and space-saving configuration
u-remote enables new, more cost-effective system solutions

Compact, high-performing, reliable and easy to maintain. u-remote responds to the challenges of future industry standards. Intelligently planned and designed with the future in mind.
Plan for a smaller set-up

Now you can configure your cabinets one size smaller. With the narrow design (module width of 11.5 mm), not only does u-remote save space, it also delivers highest channel density and extremely flexible design options. For innovative and cost-saving solutions in small spaces.

Extremely fast with huge power reserves

The u-remote has outstanding electronic performance, with the high-speed system bus achieving up to 256 DI/DOs in 20 μs. u-remote offers an extremely fast response time, rapid addressability and the precise mapping of processes in the system, with up to 1024 I/O channels per station, as well as huge power reserves for future use.

Intelligently separated

u-remote separates the supply for inputs and outputs using two 10 A current paths which are able to withstand high loads. High productivity translates into fewer power-feed modules and therefore more space and less planning. And your system can be quickly maintained while retaining full diagnostic capability, as inputs and outputs can be switched off independently of one another.

A single power supply is enough

Keep your remote I/O station as small as possible and simplify your planning. u-remote has a 4 A supply path, which allows 64 I/O-modules to be operated with just one power supply on the coupler.

Focus on reliability

u-remote remains stable in the event of fluctuating temperatures. It is designed for use in temperatures of between -20°C and +60°C without restrictions on function, which is not only great for safety, but the system’s life expectancy too.

Fewer numbers, more clarity

u-remote reduces the module diversity of your remote I/O system through universal parameterisation. And there is just one item number per module. This makes planning more flexible, module selection simpler and fewer replacement parts that have to be held in stock.
Simply faster to connect up
u-remote simplifies assembly and wiring

Safe and reliable set-up, quick and easy implementation: u-remote delivers outstanding handling benefits coupled with flexibility and safety.
Simply plug and go

The plug-in connection level allows sensors and actuators to be connected with pre-assembled cables. This means improved time benefits, better handling, and minimises the number of mistakes in system wiring.

One row with no mistakes

The clearly structured single-row connection strip assists with assignment to the circuit diagrams. When working to tight deadlines, this prevents wiring mistakes and problems during service work.

Direct insertion – direct savings

u-remote is equipped with "PUSH IN" direct connection technology. The conductor with wire end ferrule is simply inserted in the clamping unit until it stops – job done! This technology delivers time savings of up to 50 percent, compared to conventional wire-connection methods, and without impacting on safety.

Robust design

To reduce the high incidence of faults associated with such systems, the extremely robust u-remote housing offers reliable protection for everyday industrial use. Maximum resistance to vibration on the mounting rail and load-bearing capacity are also ensured, even in cases of improper handling.

The choice is yours

By using four-pole plug connectors, u-remote allows you to decide on the type of sensors and actuators used for your wires. The system can be installed with 2-, 3-, "3 plus FE" or 4-wire technology. Such a range of options provides the perfect solution for your individual project, every time.
Straightforward series start-up guaranteed
u-remote delivers superior ease of use

Convenient, safe and clear from the outset: with u-remote, your system is configured with well thought-out solutions and a design to suit your function.
Local and remote testing

By starting up one section at a time, u-remote simplifies remote testing and its integrated web server capability speeds up maintenance work. It allows you to run diagnoses remotely using any standard browser and without having to install any software. You can also simulate inputs and force outputs, locally and with ease.

Speed things up with modularity

The modular structure of u-remote ensures rapid start-up and simple service. The compact design enables intuitive handling which reduces wiring mistakes and therefore lessens the start-up times for machines and systems. u-remote speeds up the replacement of electronics without the need to alter wiring during maintenance work, so improving system availability.

Clear colours, clear functions

Innovative colour coding makes deployment and handling of u-remote incredibly simple. All relevant module functions are clearly visible and the colour pushers ensure intuitively correct wiring.

Compatible and certified

Requirements of field bus integration, complete compliance with the IEC 61131-2 product standard and UL certification – u-remote ensures compatibility with established standards and requirements.

Clearly identified

u-remote can be clearly identified to suit your needs, e.g. with connection markers, three module markers per module or swivel markers. Combined with the Weidmüller PrintJet ADVANCED, the MultiCard system also enables colour printing.
Carefree machine and system operation
u-remote reduces service requirements and improves readiness for operation

Rapid manual operations, useful control instruments, intelligent support: u-remote provides peace of mind during operation and reduces system downtime.

Improve system availability
The system simply runs on and on. The permanent base allows electronics to be replaced without interrupting communication, or the supply of voltage to your remote I/O system. A reliable solution for minimising machine downtime.

One glance and you can see everything going on
Clear assignment of status and diagnosis has never been this simple. With one LED on the channel and status displays on each module, you can easily see all you need on u-remote. The technician can see and rectify errors without delay. Indispensable benefits for safe start-up and rapid system maintenance.

Keeping it simple
The u-remote modules can be released without any tools and their sequence can be changed. For faster machine maintenance and simple system modification.
Everything in its place

Protection against incorrect insertion comes as standard with u-remote. With up to 64 configurable plug-in module codings and five function codings, installation errors and mix-ups during service are avoided.

Smart support

Installation instructions and technical data can be quickly accessed by smartphone using the QR codes. The direct link takes you to an online help area where you can access relevant information about the scanned system component.
Put together to meet your needs
u-remote provides efficient system components

Functionalities, field bus standards and areas of use:
u-remote fulfils your specific requirements.
Field bus coupler

Coupler for connecting up to 64 I/O modules. With integrated web server and supply voltage power-feed for the station.

- PROFIBUS-DP V1
- PROFINET IRT
- EtherCAT
- Modbus TCP
- DeviceNet (available from 2014)
- EtherNet/IP (available from 2014)
- CANopen (available from 2014)
I/O modules

- Digital input modules with 4, 8 and 16 positively switching inputs
- Digital output modules with 4, 8 and 16 positively switching outputs in 0.5 A, in some cases also as 2 A variant
- Solid-state relays and mechanical relay modules with 4 channels
- Pulse-width modulated modules with 0.5 A and 2 A outputs
- Universal, 4-channel, analogue input and output modules with 12 and 16 bits, can be set from -10 to +10 V and from 0/4 to 20 mA
- 4-channel temperature modules for RTD and thermocouple sensors with single-channel diagnosis

AUX and FEED-IN modules

- Feed-in modules for additional electrical isolation and current feed for input and output current path
- SIL-3 power-feed modules for safely switching off the downstream output current path, with up to two connections for emergency stop circuits
- Supply voltage distributor modules for 24 V DC, ground and functional earthing

System accessories

- Module for bridging spaces as reserve module
- Module marker in MultiCard format for labelling equipment
- Marker for labelling connections
- Swivel marker for placing on a module for detailed channel labelling
- End bracket set for fixing u-remote station on the mounting rail
- Base, electronic module and connection level can be ordered separately
Supplementary and useful products

- Efficient supply: narrow 24 V DC switched-mode power supply units of the PRO-M family
- Electrically isolate, adapt and boost signals: relay modules and solid-state relays from the TERMSERIES
- Electrical isolation and signal conversion: analogue signal converters in slim 6 mm format ACT20M
- Sensor and actuator cabling: valve and M12/M8 lines in all variants from the SAI Passive family
- Simpler and more effective networking of automation equipment with managed PremiumLine switches
- Connecting Ethernet devices: industrial cables and plug connectors with STEADYTEC® technology for Ethernet
- KLBÜ shielding connection terminals provide safe dissipation of EMC faults on shielded cables
- Distributing and connecting the sensor and actuator cables: modular terminals with “PUSH IN” technology
- Collecting I/O signals in the field: IP 67 remote I/Os from the SAI active family
- Convenient and rapid transfer of signals: system cables and interface boards with relays and fuses
- Safe connections for individual wires: job-specific tools for cutting, stripping insulation and crimping
- Systemised marking for modular terminals, conductors, cables and systems – thanks to PrintJet ADVANCED and MultiCard

Ask for product samples and experience the benefits for yourself!

See how compelling the u-remote concept is for yourself: order a personal product sample today! Alternatively, why not get hold of a fully functional u-remote test station that you can use to put our system through its paces? You cannot fail to be impressed by the simple handling, great system performance and efficient and flexible operational capability of u-remote. Let’s connect.

www.u-remote.net
Weidmüller – Partner in 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 Industrial Connectivity.

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Our website for you to find out about this remarkable, remote I/O system. Includes a descriptive demonstration video, detailed product overview and information that you can download.

See for yourself the unbeatable benefits and visit u-remote online! Let’s connect.