

Starter kits for programming your application
Entering our world of digitalisation and automation
Let's connect.

Starter-Kits u-control



Weidmüller 

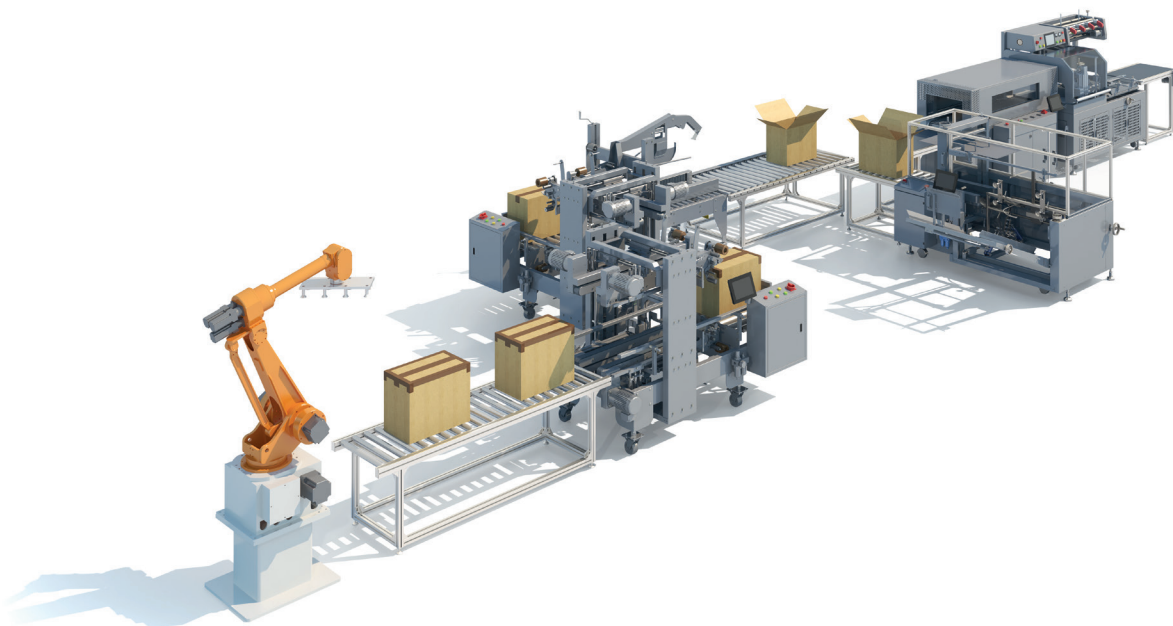
It's easy to get started

u-control starter kits for a quick introduction to the world of programming

Increasing digitalisation and automation calls for powerful and flexible control solutions that meet an extremely wide range of different requirements. As a result, there is an increasing demand for the development and testing of custom applications. We can prepare convenient starter kits for programming your custom applications based on our flexible u-control 2000 control system and our u-create portfolio.

Starter kit with u-create web – for flexible, web-based engineering
Starter kit with u-create web plus Node RED – for optimal IoT communication
Starter kit with u-create studio – for the modular programming of automation solutions

Our starter kits can be used as simple development and evaluation tools in a wide range of areas. Supplementary quick-start manuals with application examples and training modules make this new step particularly easy – and there is a pre-installed test application for quick commissioning. The option to integrate additional software modules also ensures a high level of scalability.

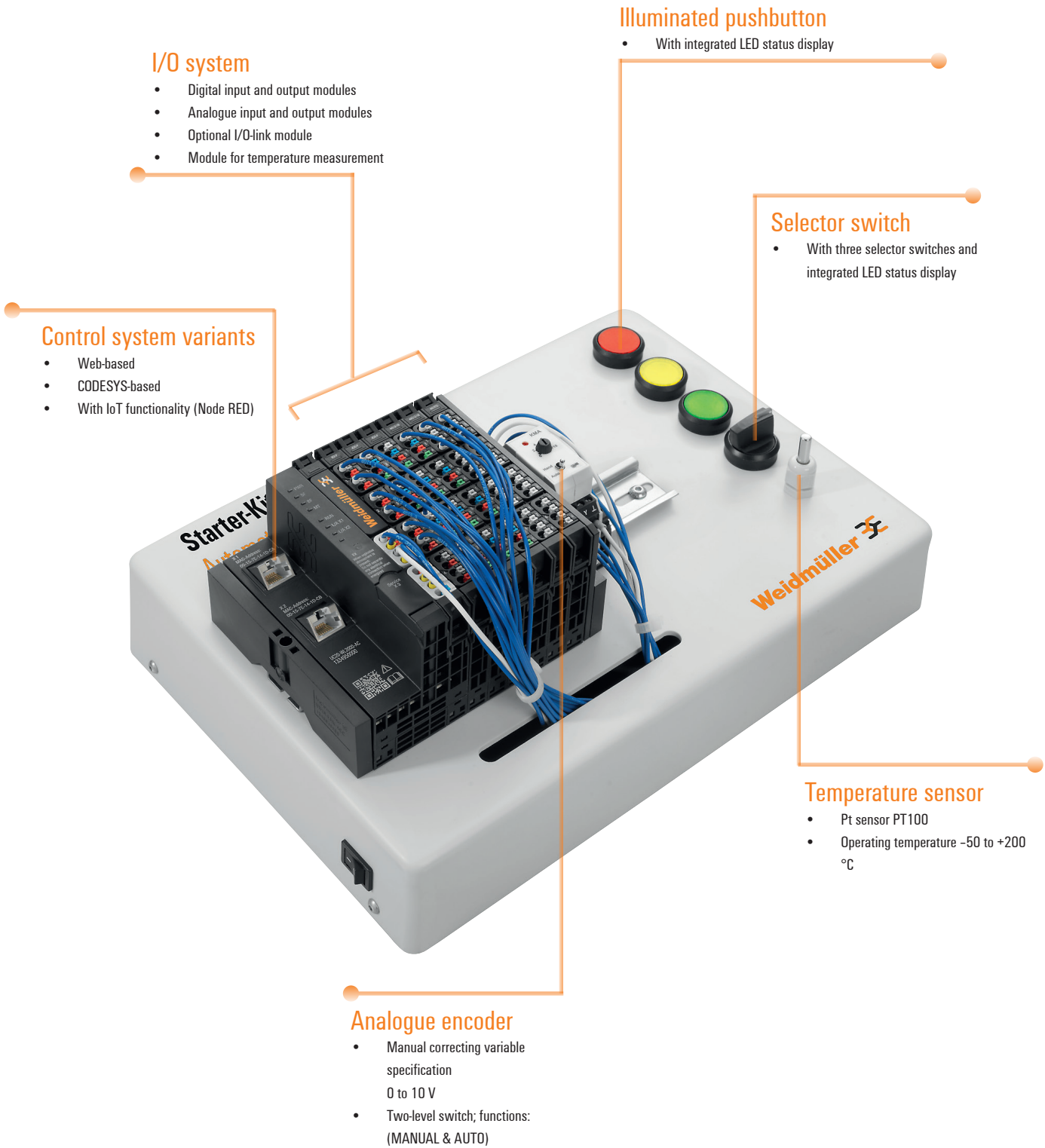


The particular benefits:

- Development of your own out-of-the-box applications
- Pre-assembled with sensors, actuators and u-remote components
- Powerful integrated u-control 2000 control module
- High level of scalability thanks to additional software modules

Clear and convenient

An overview of the components and functions of our starter kits



Starter kit with u-create web

The innovative control system with platform-independent engineering tool

Worldwide networking, increasing levels of data exchange and customer-specific production require more flexible automation solutions. With u-create, we are providing plant manufacturers and mechanical engineers with open, web-based and secure control software for the automation of small and medium-sized systems.

You will find the u-create web software in our Automation Controller Web starter kit. This web-based engineering software can be used for configuration, system parameterisation and programming in accordance with IEC 61131-3.

The software is directly installed on the hardware and does not need to be installed onto a computer. This means that the software can be used as an engineering platform regardless of what hardware and operating system is being used. The integrated web front end smartvisu allows for the visualisation of the project within the project environment. The functions can be extended by adding on supplementary software modules such as the OPC-UA server/client module or the u-create PROCON-WEB module etc. The integrated Node RED means that u-create web also works in industrial IoT environments.

When used in combination with the u-control 2000 control system and the u-remote I/O system, u-create web is the ideal automation solution for your system.

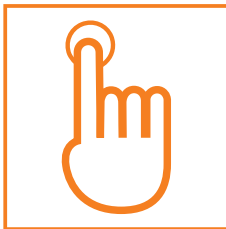


The particular benefits:

- Web-based engineering software
- Platform-independent and device-independent programming via web browser
- Programming standard in accordance with IEC 61131-3
- Integrated software modules such as Node-RED, OPC-UA and u-link

Technical data

Type	Control system variants	Accessories	Access point	Order no.	Qty.
STARTERKIT-UC20-WL2000-AC	Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM	power-supply unit, USB cable, Ethernet cable	no	2666080000	1



Intuitive

Thanks to the integrated engineering tool, you can start work immediately without having to perform any installations. Programming is easy to perform using the drag-and-drop function.



Independent

The use of web technologies means that you can carry out your work regardless of the devices or platforms you use, and can benefit from the internationally applicable programming standard IEC 61131-3.



Smart

u-create web can be used across all platforms and with all common operating systems and browsers that support HTML5, CSS and JavaScript.

Starter kit with u-create web and Node-RED

Programming with cloud connection – for optimal IoT communication

As well as safe control systems, modern systems need to be able to send machine data directly to a cloud. In combination with the Node RED module, u-create web provides the option of pre-processing sensor information from u-remote I/O modules and forwarding it to the cloud via MQTT or AMQP.

u-create web and Node RED are pre-installed in our IoT Controller starter kit, meaning that data can be sent directly to the cloud via Node RED.

Node RED is easy to configure via the u-control 2000 web server, and is compatible with our u-remote I/O modules. The web-based software environment of u-create web can be used across all devices and platforms, and with all common browsers that support HTML5, CSS and JavaScript.

You can choose from the cloud providers Microsoft Azure, IBM Cloud and Amazon aws. A high level of security is guaranteed thanks to the Security-by-Design concept.

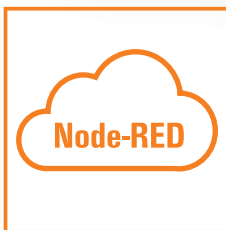
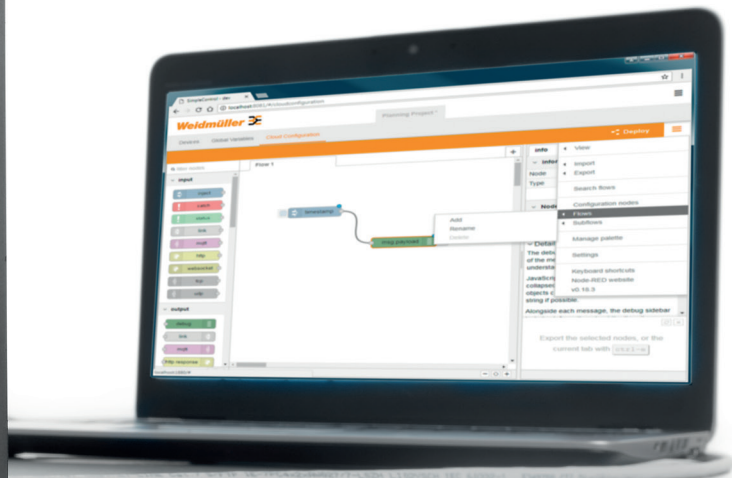


The particular benefits:

- Web-based software
- Platform-independent and device-independent programming via web browser
- Future-proof thanks to the use of standardised web technologies such as HTML5
- Intuitive implementation of IoT applications using Node RED

Technical data

Type	Control system variants	Accessories	Access point	Order no.	Qty.
STARTERKIT-UC20-WL2000-IoT	Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM	power-supply unit, USB cable, Ethernet cable	yes	2666060000	1



Simple cloud connection

u-create web with Node RED makes it possible to quickly implement IoT applications via Node RED. The graphic interface allows for the abstraction of an extremely wide range of technologies based on a simple modular principle.

Independent and secure

The web-based software environment can be used regardless of device or platform. The Security-by-Design concept guarantees a high security standard.

Independent implementation

u-create web with Node RED can be used across all platforms and with all common browsers that support HTML5, CSS and JavaScript.

Starter kit with u-create studio

The open platform for modular programming with CODESYS and C/C ++

The flexible, modular programming of applications based on internationally proven standards is crucial for today's automation solutions.

Our u-control starter kit with u-create studio allows for flexible programming within your applications, and makes it easy to configure your systems and carry out diagnostics. The u-create studio engineering software is particularly flexible thanks to the open Linux architecture, and provides a range of options for the customised installation of software modules.

u-create studio offers an object-oriented programming solution in the form of C/C++. The IEC 61131-3-compliant programming based on CODESYS version 3 has proven particularly successful. The CODESYS-based engineering means that the usual programming environment can also be used on a new control system such as u-control 2000.

The powerful debugging function and trace tool support quick error analysis during programming. An OPC-UA server is available for standardised M2M communication. The kit also includes an EtherCAT fieldbus master and a Modbus TCP master for wide-ranging connection options.

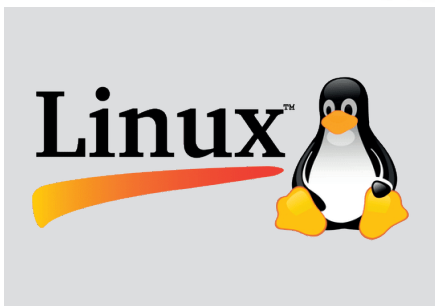


The particular benefits:

- CODESYS-V3 compatible development environment with IEC-61131-3 and C/C++ programming
- Powerful debugging
- Integrated fieldbus master (EtherCAT and ModbusTCP)
- Open Linux platform for the integration of your own software modules

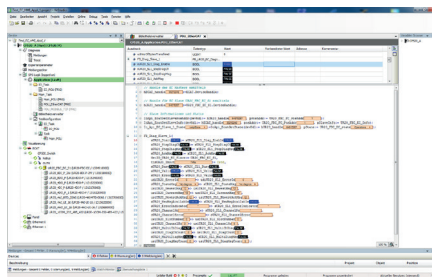
Technical data

Type	Control system variants	Accessories	Access point	Order no.	Qty.
STARTERKIT-UC20-SL2000-OLAC-EC	Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM	power-supply unit, USB cable, Ethernet cable	no	2666070000	1



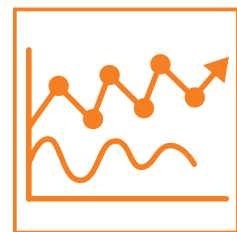
Open architecture

The open software architecture makes it possible to install application-specific software modules, thereby adapting the u-control system to individual applications.



All-in-one programming

The simple programming based on repeatedly proven standards such as IEC 61131-3 and C/C++ allows for a rapid introduction to programming while also making it possible to use well-known programs.



Quick error analysis

The software can be used to configure your system and carry out diagnostics. A high-performance debugging and tracing tool makes fault analysis easier.

Our expertise for your requirements

Service connects – worldwide



Professional advice during planning

Our global network of industrial managers has extensive experience in automation technology and electrical connectivity. This expertise allows us to assist you with advice and planning support in order to work with you on resolving the everyday challenges of your applications.



Technology and application training

Industrial automation is moving towards smart production, and is facing the challenges of new technologies and applications. Our varied range of training courses develops this knowledge further or provides more in-depth information on the handling of our products and solutions. Our seminars are modular and can be customised. We can train you and your employees in our academy or on your premises if you require, as well as online in our webinars at any time.

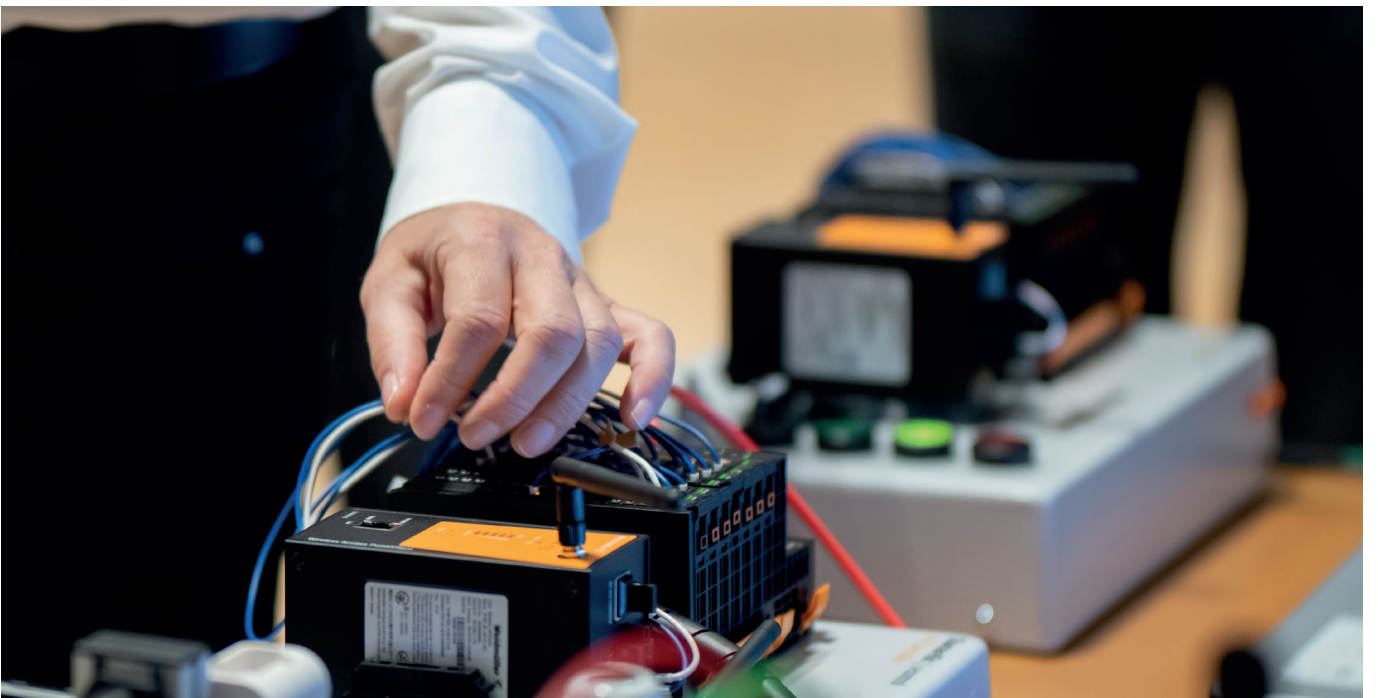
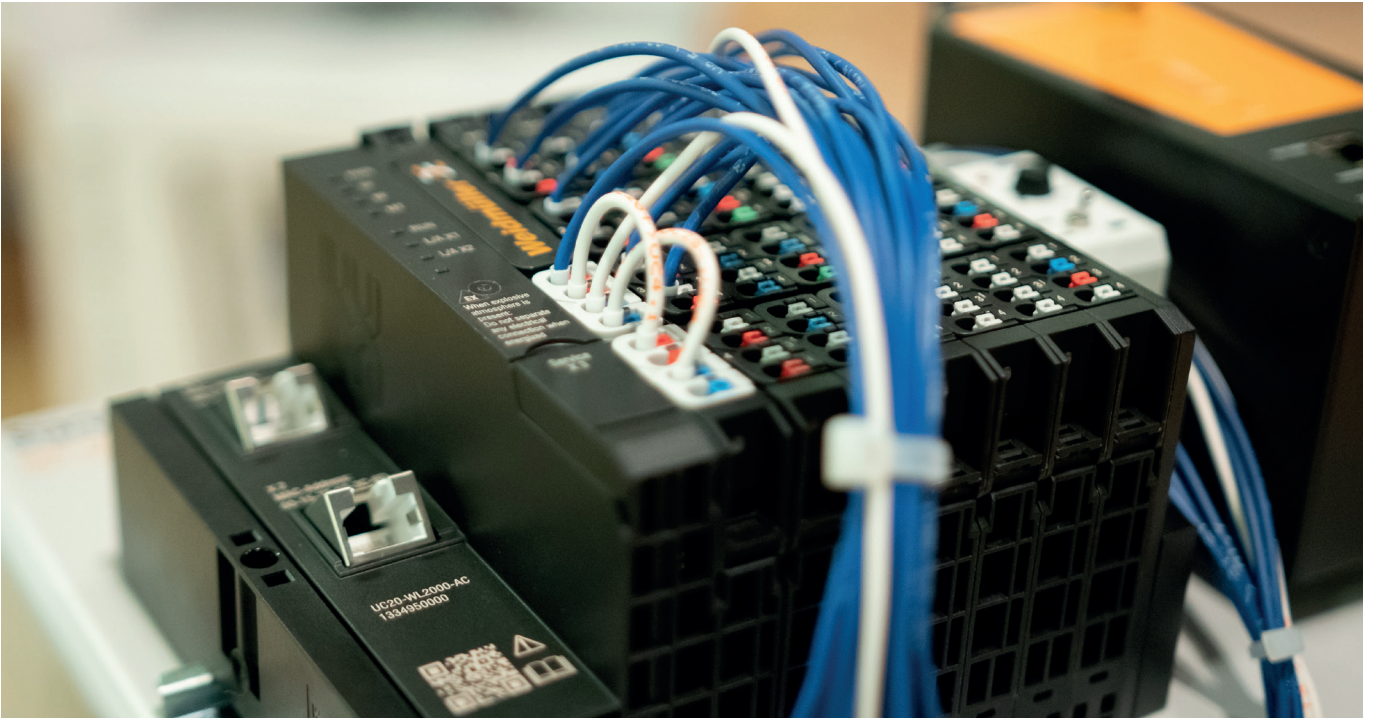


Customer-specific installation

The challenges for the future are reducing costs and increasing efficiency. This requires intelligent, individual solutions that are tailored to your requirements. We can offer a highly qualified customer-specific production service in our application centre. Whether you need modified products, pre-assembled terminal rails or complete small cabinets, we quickly and flexibly produce the solutions that we developed in collaboration with you for your application.

The particular benefits:

- Application-specific advice for programming and control requirements
- Comprehensive range of Weidmüller products for a high level of modularity.
- Close collaboration between the customer and the Weidmüller Applications team
- Customer-oriented sales with precise knowledge of requirements and working environments



Weidmüller – Your 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, signals 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 value-creating solutions for their individual needs. Together, we set standards in Industrial Connectivity.

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