

Data sheet:

Web-IO 4.0 Digital 12xIn, 12xOut, 1xRS232



Article no.: 57731

558.00 €

*Net price for
commercial users

Switch, monitor, count and send serial data

With the Web-IO 4.0 Digital you get two units in one. The Web-IO part enables the accustomed variety of protocols and applications for controlling, collecting and monitoring the digital IOs. Also integrated is the function of a [serial Com-Server](#) for transmitting serial RS232 data streams. This makes the Web-IO 4.0 Digital 12xin, 12xout, 1xRS232 ideal for use in DNC and MDE applications.

Properties

Switching signals:

- **12 switching inputs:**
 - Digital 24V inputs
 - 32-bit pulse counter
- **12 switching outputs:**
 - Digital 24V outputs
(12V, 48V, 110V, 230V via [coupling relays](#))
 - Drive up to 500 mA
 - Short-circuit-protected

Serial interface:

- **RS232 port:**
 - DB9 plug with DTE pin configuration
 - max. 230,000 baud

Wiring example

Connectivity:

- **Intuitive Web interface** for simpler operation
 - Select between German or English
 - [Switching the outputs directly from the Web interface](#)
 - [Adaptation for smartphone](#)
 - HTTP and HTTPS
- **Current Industry 4.0 protocols:**
 - [OPC UA](#), REST and [MQTT](#) support
 - AMQP on request
- **Box-to-Box**
 - [Pass switching signals over the network 1:1](#)
- **Alarm and reporting functions:**
 - [Email for alarm sending or as status report](#)
 - [SNMP polling / alarm traps V1 V2 V3](#)
 - Switching your outputs in alarm situations
 - Switching the outputs on another Web-IO
 - HTTP requests for controlling third-party devices
 - Up to 30 actions can be configured

- **Dynamic integration into other Web sites:**
 - Direct access to current IO states via [HTTP requests](#), [AJAX](#) and [JavaScript](#)
- **Additional software interfaces for incorporating into your systems/databases:**
 - [OPC UA](#), [OPC DA](#)
 - [Modbus TCP](#)
 - Syslog, SNMP V1 V2 V3
 - [TCP and UDP sockets](#), [client and server](#)
 - [HTTP](#), [HTTPS](#), [AJAX](#)
 - [FTP](#) (data logging)
- **Internal clock**
 - Time synchronization using time server calibration
 - Battery-backed device clock
- **Possible applications:**
 - Remote monitoring and fault messaging
 - Cross-location switching
 - House and building automation
 - Process monitoring and visualization
 - Light, gate and cabinet control
 - Machine Data Collection (MDC)
 - More uses can be found [here](#).

Power supply:

- **External power**
 - Screw terminal
 - 12 - 24V DC

Standards & more

- **Conforms to standards both in office and industrial environments:**
 - High noise resistance per EN 61000-6-2
 - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3
- **5 year guarantee**

Wish for something!

[Your suggestions for improvement and additions](#)

Technical data

Connections, displays and control elements:

Digital outputs:	12 x digital outputs 6V - 30V, 500mA Short-circuit-protected Using our coupling relays voltages of even up to 230V can be switched
Digital inputs:	12 x digital inputs, max. input voltage +/-30V protected against reverse connection within this range Switching threshold 8V +/- 1.5V "On" current = 2.2 mA integrated 32-bit pulse counter
Serial interface:	1 x RS232 9-pin, max. 230,400 baud DTE pin configuration
Network:	10/100BaseT autosensing
Power supply:	12-24V DC (approx. 100mA@24V)
Galvanic isolation:	Digital outputs - network: min. 1000 V Digital inputs - network: min. 2000 V Digital inputs - outputs: min. 1000 V
Adapters:	1 x 16x screw terminal block for IOs 1 x DB9 for RS232 with Com-Server function 1 x RJ45 for network
Indicators:	Status LEDs for network 24 LEDs for digital statuses

Data transmission:

Protocols for IOs: HTTP and HTTPS
 Box-to-Box
 TCP and UDP sockets, client and server
 MQTT - Publish and Subscribe
 REST
 SNMP V1 V2 V3 including traps
 SMTP e-mail sending
 OPC server
 Modbus TCP
 Inventory keeping, group management

Protocols for RS232: COM Port Redirector
 Box-to-Box
 TCP and UDP sockets, client and server
 FTP, client and server
 Telnet, client and server
 Inventory keeping, group management

Response times: Data and switching traffic: typically 20 ms

Housing and other data:

Housing: Plastic housing for top hat rail installation
 106.8x87.8x62.6 (lwxh)
 Enclosure rating: IP20
 Weight: approx. 250 g
 Storage temperature: -25°C - 70°C
 Operating temperature: 0°C - 60°C
 Permissible relative humidity: 5..95% RH (non-condensing)
 MTBF: 357,539 h @25°C per MIL-HDBK-217
 Scope of delivery: 1 x Web-IO 4.0 Digital, 12xInput, 12xOutput, 1xRS232
 1 x Quick Guide
 Power supply and other accessories can be ordered separately

Accessories

*Net unit price for
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Power supplies

Plug-in power supply, 24V / 500mA DC with Euro plug	11021	21.00 €
Plug-in Power Supply, 24V / 750mA DC with Euro, US and UK plug	11026	38.00 €
Power supply for DIN rail, 24V / 630mA DC (merchandise, 2-year manufacturer's guarantee)	11080	33.00 €

Coupling relay for up to 230V

230V coupling relay - 1 x changeover for DIN rail mount	57015	22.00 €
230V coupling relay - 2 x changeover for DIN rail mount	57016	22.00 €

Mechanical Accessories

19" DIN rail	58813	21.00 €
Wall mount housing, enclosure rating IP66 / IP67	11120	54.00 €

Supplementary network products

Ethernet Switch Gigabit Industry, 4 Ports	55614	148.00 €
logic.hub	50506	598.00 €

* Our offering is intended only for commercial users. We will be happy to refer private end customers to trading partners through whom our products can be purchased.

Secure connection:



We are available to you in person:

W&T

www.wut.de

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