

Data sheet:

Web-IO 4.0 Digital 12xIn, 12xOut



Article no.: 57730

EUR 438.00

*Net price for
commercial users

Switch, monitor and count ...

With the Web-IO 4.0 Digital [switching signals](#) can be controlled, acquired and monitored over TCP/IP Ethernet. Numerous web and network services are available for reporting changes on the inputs and outputs - even directly in a browser. With protocols such as [OPC UA](#), [MQTT](#) and [REST](#) the Web-IO is an ideal fit in the world of Industry 4.0 and the Internet of Things.

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

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 measurement values 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 via 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 +/-30 V Protected against polarity reversal within this range Switching threshold 8V +/- 1.5V "On" current = 2.2 mA integrated 32-bit counter
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 auxiliary port 1 x RJ45 for network
Displays:	Status LEDs for network 24 LEDs for digital statuses

Data transmission:

Protocols:	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
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 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€	
Motherbox 3	50504	328.00€	

* 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.



We are available to you in person:

Wiesemann & Theis GmbH
Porschestra. 12
42279 Wuppertal
Phone: +49 202/2680-110 (Mon.-Fri. 8 a.m. to 5 p.m.)
Fax: +49 202/2680-265
info@wut.de

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