

Data sheet:

Web-IO 4.0 Analog 0-20mA



Article no.: 57761

EUR 338.00

*Net price for commercial users

Measure, tunnel, output analog signals...

The combined solution for analog **in-** or **output signals** brings your measurements into the network and back to the terminal. Use the Web-IO Analog-In/Out to measure **analog signals**, tunnel them over the network and output them again as analog signals at a remote location.

Properties

Analog connection:

- Two channels, selectably configurable as:
 - **Current input:**
 - Input signal: 0/4..20mA active/passive
 - **Current output:**
 - Output signal: 0/4..20mA

Connectivity:

- **Intuitive Web interface** for simpler configuration
- **Monitor analog measurements and processes from a browser**
- **Alarm and reporting function:**
 - E-mail for alarm or reporting functions
 - SNMP polling / alarm traps
 - Configure up to 12 alarm messages
- **Box2Box mode** tunnels analog signals between two devices
- **Set analog values via socket command or direct entry**
- **Active current input** 0/4-20mA
- **Interactive display**, custom scalable
- **Dynamic integration into other Web sites:**
 - Direct access to current measurement values, e.g. JavaScript (AJAX).
- **Current Industry 4.0 protocols:**
 - OPC UA, REST and **MQTT** support
- **Additional software interfaces for incorporating into your systems/databases:**
 - SNMPv1, SNMPv2c, SNMPv3
 - OPC UA, OPC DA
 - Syslog
 - Sensobase (database integration via ODBC)
 - TCP and UDP sockets, client and server
 - FTP (data logging)

- Modbus TCP

- **Possible applications:**

- Connect each sensor with 0/4..20mA output and monitor measurements
- Control analog actuators over the network
- Network as extension: tunnel analog values via Box2Box mode
- Logging of measurements via FTP, Excel file, email attachment and internal memory

Data logger:

- **Internal data logger**

- Memory capacity: min. 150 days, max. 99 years
- Save frequency: 15, 30 sec, 1, 5, 15, 60 min

- **Document measurement data online in the [W&T Cloud](#) and access** from anywhere in the world

- **Internal clock**

- Time synchronization via time server calibration
- Battery-backed device clock

Standards & more

- **Supply voltage via Power-over-Ethernet (PoE)**

- Phantom power using data pairs
- Power over unused wire pairs
- External power supply is an alternative

- **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 and displays:

Current input passive:	0/4..20mA, 100Ohm
Current input active:	0/4..20mA, burden max. 500 Ohms, active voltage U _{max} 14V / 40mA
Current output:	0/4..20mA, burden max. 500 Ohms, supply 10V guaranteed
Analog in-/output:	8-pin terminal block Conductor cross-section 0.2-1.3mm ² Stripped length 6-8mm
Current loop monitoring:	Short circuit protected and open-loop detection
Network:	10/100BaseT autosensing RJ45 IPv6 on request
Galvanic isolation:	Measurement inputs to network: min. 1500 volts
Power supply:	Power-over-Ethernet (PoE) or DC 12V .. 48V (+/-10%)
Current consumption:	PoE Class 1 (0.44 - 3.84W) typ. 100mA @ 24V DC with external supply
Displays:	1 LED power 2 LEDs network status 4 LEDs status and error

Measuring unit:

Resolution:	Current input: 2.5µA
Measuring error:	max. 0.5% FSR (Full Scale Range 0..20mA) T _A = 0-60°C
Storage frequency:	15, 30 sec., 1, 5, 15, 60 min
Storage depth:	min. 150 days, max. 99 years
Measurement value acquisition (can be polled over the network and can generate alarms if desired):	2 / second

Housing and other data:

Housing:	Plastic compact housing for top-hat rail mount 105x22x75mm (LxWxH)
Enclosure rating:	IP20
Weight:	approx. 140 g
Ambient storage temperature:	-40..+70°C
Ambient operating temperature:	0 .. +60°C
Scope of delivery:	1x Web-IO Analog-In/Out 2x 0..20mA PoE for DIN rail mount 1x Quick Guide in German/English

Accessories

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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€

Storage and Visualization

Motherbox 3	50504	328.00€
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Mechanical Accessories

Mounting bracket for wall mounting	58812	11.20€
19" DIN rail	58813	21.00€

Supplementary network products

Ethernet Switch Gigabit Industry, 4 Ports	55614	148.00€
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Software

WuTility	00104	free
OPC Server	00103	free
Sensobase®	00107	free

* 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.

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