Webserver EW-3

Quick start guide

Welcome to EW!

Operator panel   SD card   Expansion modules
Ethernet

Local PC

Power   Status   Create backup   Load file

Load backup
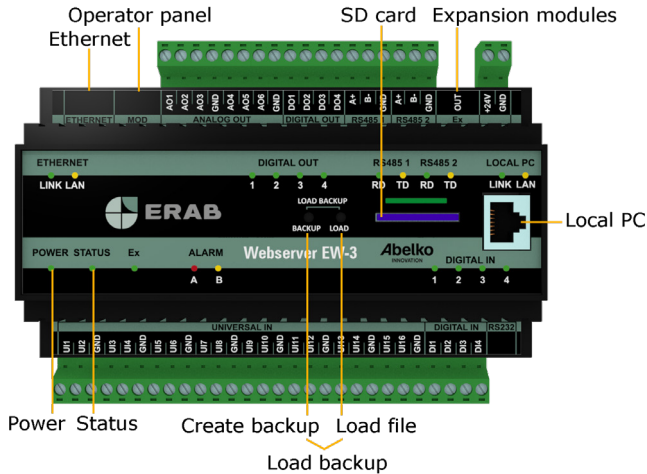
⚠️ All users of this product must carefully read the manual and take necessary safety precautions.

Safety instructions
If the product is not used as intended its protection and safety functions may not work.

Installation
The unit is to be mounted on a DIN rail in a locked cabinet. Installation is carried out by a qualified electrician. Cables must be fastened and secured so that no risk for injury or fire exists. Ventilation openings in the devise housing may not be covered.

A circuit breaker shall be installed close to the unit and its power supply. Function and position shall be clearly labelled. External voltage source connected to **DIGITAL OUT** must be limited to a maximum of 0.5 A. The equipment must be unplugged from the mains and other possibly dangerous voltage sources during installation and service.

Power supply

Webserver EW-3 is powered by 24 V DC, through the terminal marked **+24V** and **GND**.

Requirements and characteristics of the unit's inputs and outputs can be found in the table below.

Port	Supply	Supply expansion module (port Ex)
+24V/GND	24 VDC* (>300 mA)	24 VDC, 1A

* Stabilized DC voltage.

The **Power** LED lights up when the device is energized and the **Status** LED lights up when the device has started up and is working.

Safety instructions

All external equipment connected to the device must have double or enhanced isolation (class II) from power mains or other dangerous voltage source (>50 VAC or > 75 VDC).

Note that all cables used must be approved for at least 50 °C ambient temperature.

At high ambient temperatures there is a risk for burning injuries. Wait for the equipment to cool down, and use protective gloves.

Network connection

The unit is connected to a permanent network by the **Ethernet** port. The factory default IP address is **10.0.48.94.**

Local PC is used only to connect the unit directly to a PC. It has IP address **192.168.142.1**, and can be used to configure the regular network connection in the Webserver EW-3.

When you use the **Local PC** port, the computer should be configured for **DHCP** (which it usually is).

1. Open a web browser and enter the IP address https://192.168.142.1 in the address bar. This will take you to the login page.

   User name and password the first time you log in:
   User name: **config**
   Password: **ef56**

2. Go to the menu **Communication** and **Network**, and set the **IP address** and **netmask**, in order to configure the settings for the port marked **Ethernet**.

You can also use DHCP, the unit will then automatically get network settings. After a while, you can see which IP address it received. You can use this IP address to access the device from a PC, connected to the same network.

HTTPS
The first time that you log in to an Ultra, you will be warned that the connection is not private, secure, or similar. This is because the system uses HTTPS for a secure and encrypted connection. The security is guaranteed by a certificate that is issued for a specific address. Since the address is adjustable, there is only a self-signed certificate for the unit.

You need to accept and add this exception. The procedure differs depending on which browser you are currently using. The communication is still encrypted, so no-one can see, for example, which passwords are being used.
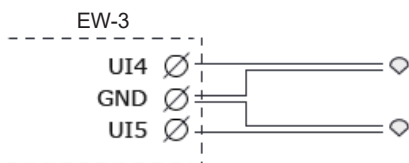
Graphical programming
Graphical programming is available as an installable program. Download it at **www.abelko.se.**
There is also a link to the program in your units user interface under **Configuration** and **Graphical programming**.
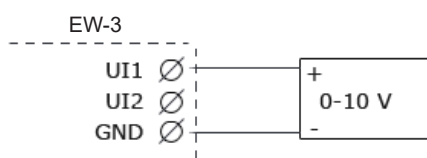
Universal inputs
There are 16 universal inputs marked **UI**. Universal inputs can be used for both resistive temperature sensors, voltage 0-10 V and current 0-20 mA. UI can also be used as a digital status input for potential-freeswitches.
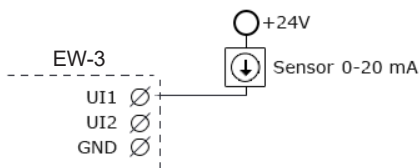
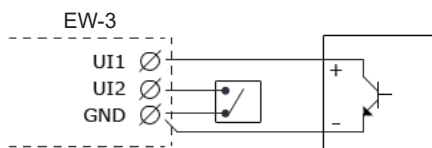### *Resistive temperature sensors*
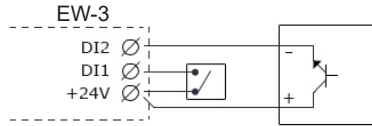
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UI4
GND
UI5

Voltage 0-10 V

EW-3

UI1
UI2
GND

+
0-10 V
-

Current 0-20 mA

+24V
Sensor 0-20 mA

EW-3

UI1
UI2
GND

Digital status input for potential-free switches

EW-3
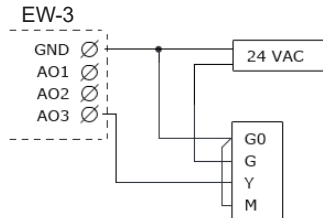
UI1
UI2
GND

+
-

ERAB

www.erab.se

Digital inputs

There are four digital inputs marked **DI**. Digital inputs can be used for digital status, counters and for frequency measurement.

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DI2
DI1
+24V

Analog outputs

There are six analog outputs for 0-10 V, marked **AO**. The figure below is an example on how you can connect an AC-powered valve controller.

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GND
AO1
AO2
AO3

24 VAC

G0
G
Y
M

Digital outputs

There are four digital outputs marked **DO**. Digital outputs are open collector that closes to ground (GND) when they are activated.

Cleaning

The housing is cleaned from dust and dirt using a dry cloth. Do not use chemicals.

Recycling

Webserver EW-3 should be recycled as electronics.

Repair and service

Reparation and service shall always be performed by Elektro Relä AB. Contact your distributor first if the need arises.

Contact information

Website:	www.erab.com
Postal address:	Elektrorelä AB
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	126 30 Hägersten
	Sweden
Telephone:	08-121 488 00