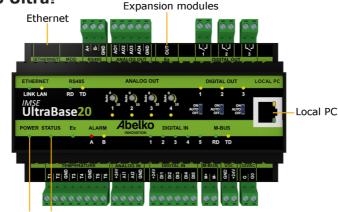
IMSE UltraBase20

Quick start guide



Welcome to Ultra!

Power Status

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. 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. This must also be done for dangerous voltages connected to built in relays. Power sources connected to built in relays must be limited to max 2 A current.

The equipment must be unplugged from the mains and other possibly dangerous voltage sources during installation and service.



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Power supply

UltraBase20 is powered by **24 V DC**, through the terminal at the top right (marked **+24V** and **GND**) or with **24 V AC** through the terminal marked **24VAC**, **G** and **GO**. **Note!** If you choose to power the unit with **24 V AC**, expansion modules connected to **Ex OUT** are not powered.

Network connection

The unit is connected to a permanent network by the **Ethernet port**, at the top left. The factory default IP number 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 Ultra.

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**

 Go to the menu Communication and Network, and set the IP address and netmask. You can also check the DHCP box, 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 you log in to an Ultra, you will be warned that the connection is not secure, or similar. This is because the HTTPS protocol ensures a secure and encrypted connection. The security is guaranteed by a certificate, which needs to be issued for a specific IP number. Since the IP address is and needs to be configurable, there is no 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.

Grapical programming

Graphical programming is available as an installable program. Download it at **www.abelko.se/support/**

There is also a link to the program in your units user interface under **Configuration** and **Graphical programming**.



Installation

Power supply with 24 V DC.

The power supply must be stabilized and supply at least 300 mA. The power supply also provides power to any expansion modules and must be dimensioned for them.



Using a 24 AC power supply

Connect the 24 V transformer to G and G0. G and G0 are isolated from GND. Ex OUT will not be powered when using AC power.



The Power-LED shines when the module has power. The Status-LED shines when the unit is running. There is a boot up time after power up before the status LED is lit.



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).



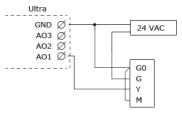
Note that all cables used must be approved for at least 50 °C ambienttemperature.



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

Analog outputs

Analog outputs for 0-10 V, marked AO, are located on the upper terminal strip. The figure to the rigth is an example on how you can connect an AC-powered valve controller.



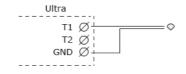
Digital outputs

Digital outputs, marked DO, are located on the upper terminal strip. They are normally open relays with breaking capacity of 250 VAC/2A or 30 VDC/2A with resistive load.



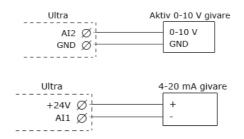
Temperature sensor inputs

On the lower terminal row, there are inputs for resistive temperature sensors marked with T. They have a measurement range of 800 to 1600 Ohms and works for example with PT1000 sensors (approximately -50° C to 150°C) and Ni1000 sensors.



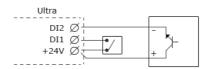
Analog inputs

On the lower terminal row there are two analog inputs marked AI. These can be configured to measure 0-10 V or 0-20 mA.



Digital inputs

Five digital inputs, marked DI, are located on the lower terminal strip. These can be used for digital status, counters and frequency measurement.



Cleaning

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

Recycling

When recycling, sort the product as electronics.

Repair and service

Reparation and service shall always be performed by Abelko Innovation. Contact your distributor first if the need arises.

Manuals, updates och other information are available at **www.abelko.se**.

