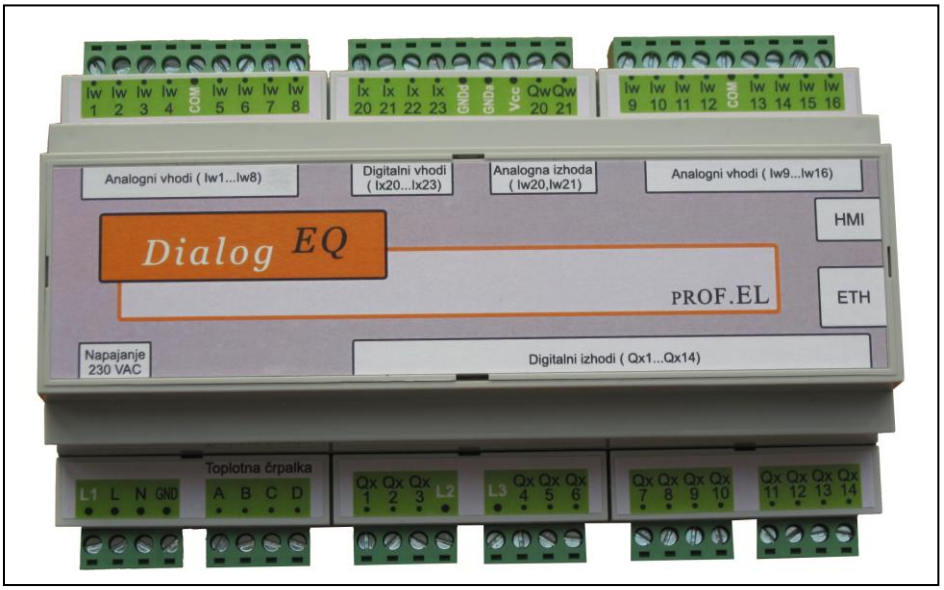
Controller

# DIALOG EQ




## *Use possibilities*

**Dialog EQ Controller** is primarily designed for management of heating and cooling systems, but it can be used in various areas of automation and in intelligent buildings.

Connected to the internet, it offers a simple, user-friendly experience. The performance of your system can be remotely monitored and controlled through the network applications in the "cloud" from your computer, laptop, tablet or smart phone (from wherever you are).

The "cloud" server stores settings, status, temperature and all events on the controller, which allows the creation of temperature graphs and provides performance analysis of your system.

Connecting to the Internet is quite easy. The controller simply has to be plugged into an active wired network connection, the rest makes the Dialog EQ itself.

**The layout of the controller allows easy control-algorithm regulation on your system and also a simple adjustment of the display according to the wishes of the user.**

Dialog EQ Controller can be used to regulate the distribution of the heating or cooling medium throughout the facility. Exits and algorithms are ready to control:
**- direct circuit**
**- mixed circuit 2x**
**- sanitary water**

At the same time the Dialog EQ Controller may be used to regulate the production of heat or cold. Exits and algorithms are ready to operate with:
**- Biomass boilers**
**- Boilers burning gaseous and liquid fuels**
**- Heat pumps air / water**
**- Heat pumps water / water**
**- Solar panels**
**- Electrical heaters (3 levels)**

Special configuration of the controller also includes a communicator that allows direct communication with external units of heat pumps air-water brand FUJITSU.

## *User interface*

Dialog EQ Controller has two user interfaces:

- if the controller is not connected to the internet network, the user interface is generated directly from the controller (INTERNAL SERVER);
- if the controller is connected to the Internet network, the user interface is generated from a computer in the "cloud" (EXTERNAL WEB SERVER).

**INTERNAL SERVER**

If the controller is not connected to the Internet network, you can monitor the operation of the system in two ways:
- Direct wired connection
- Wi-Fi connection

Access to the setup interface is the same in both cases, you only need to type in your browser the default IP address (192.168.1.234).

**Direct wired connection**

It means that we directly connect a computer or laptop to the controller. We only need a standard Ethernet cable.

**Wi-Fi connection (WiFi)**

It means that a local wireless network is generated through a wireless access point. This network can be connected to any device which enables wireless communication.
For this purpose we only need a module (WiFi) called the wireless access point.

*Appearance of internal user interface:*


**EXTERNAL WEB SERVER**

Connecting the controller to the Internet network can be done in two ways:
- The direct wired connection to the router
- Wired connection via the mains

When connected to the Internet network, the controller will automatically begin to communicate with the router (DHCP) and will send data to the server in the "cloud".
If there are any restrictions, the static address information and transition to the Internet can be entered into the controller manually.

**The direct wired connection to the router**

It means that we directly connect to the router with a computer. We only need a standard Ethernet cable or a Wi-Fi connection.

**Wired connection via the mains**

If we do not have an appropriate wired connection between the router and the controller, the power supply is used for the communication. This requires two modules (Et2PL), which enable Internet communication via the mains.

*Appearance of WEB user interface:*

## *Technical information*

| | | |
|---|---|---|
| Supply voltage | | 230 VAC, 50 Hz |
| Own consumption | | 4 VA |
| Working temperature | | 0 °C to 50 °C |
| Storage temperature | | -20 °C to 70 °C |
| Insulation class | (VDE 0100) | II |
| | (DIN 40050) | IP20 |
| Compliance with standards: CE | | IEC 61131-2-2007 |
| Dimensions of the housing | | 160 x 108 x 58mm |
| Housing material | | Lamex, ABS |
| Weight | | 520 g |
| | | |
| Controller inputs | | 16 x analog + 4 x digital |
| Temperature sensors | | NTK or Pt1000 (max 14x) |
| Analog input (0-10V, 0-20mA) | | 2 x |
| Digital inputs | | 4 x galvanically isolated |
| Digital counters | | 2 x (to 500 Hz) |
| Controller exits | | 14 x digital + 2 x analog (0-10 V) |
| Maximum load of digital outputs | | 10 x relay (250 VAC, 1,5 A)<br>4 x optotriak (250 VAC, 100 mA) |
| Power supply connectors | | Ethernet, CAN |
| Communicator | | For the outdoor unit Fujitsu A / V heat pump |
| Own power RTC | | 3 days |

## *Ordering information*

**Type:**

- **Dialog EQ** (basic version)

**Options:**

- **2F** (with the communicator for Fujitsu Heat Pumps)
- **Wifi** (wireless access point)
- **Eth2PL** (Internet connection via mains)

**Temperature sensors:**

- NTK temperature sensors (10kohm) (-30 to 90 degrees)
- PTC temperature sensors (Pt1000) (-30 to 200 degrees)

**Order example:** Dialog EQ + Wifi + NTK (10x) + PTK (2x)

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