

NEW



igneo^o
touch

Modular boiler regulator
Igneo *touch* created for the user benefits

www.estyma.pl

est^oma
electronics

Design

It can be distinguished by design: a very thin mounting frame (3mm), a very large glass touch screen that takes 95% of the front panel surface and a high quality display. This ensures that our panels perfectly go with actual modern designing trends.



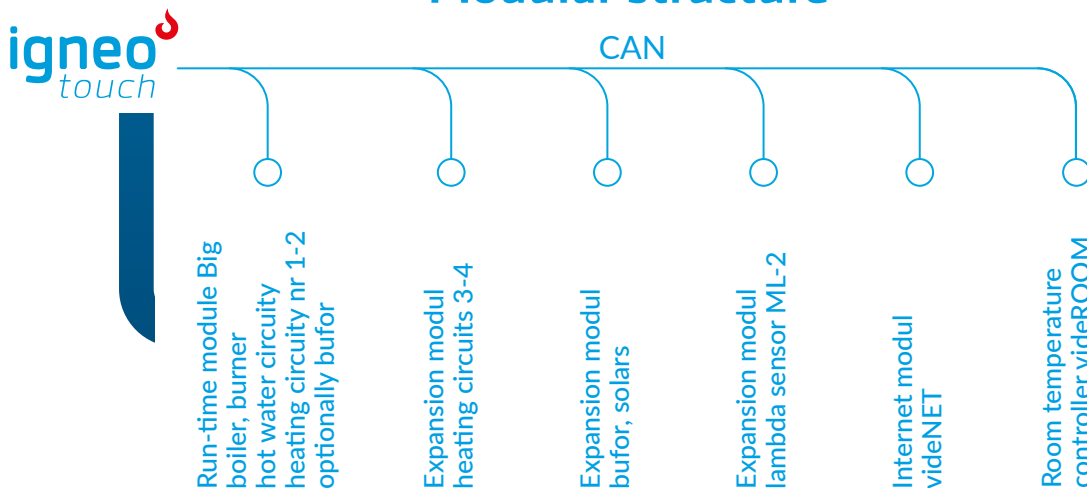
Configuration

Controller modularity ensures a high degree of multiple configurations. Basics configurations include: user interface panel **igneo touch** and IO module, which can be adapted to the actual needs of the boiler or the market. In addition the end user has the possibility to extend the functionality of the system with currently available modules. The controller is completely compatible with the older **igneo** line.

Example basic configurations

	igneo touch panel + CAN I/O std	igneo touch panel + CAN I/O big	igneo touch panel + proBoard	Your configuration
hot water circuitry	1	1	1	✓
heating circuitry	1	2	2	✓
BUFOR	-	1	1	✓
Lambda	option	option	yes	✓

Modular structure



Algorithms

Because of the utilization of the high performance ARM Cortex-M4F 180 MHz microprocessor, we can use the newest algorithms for the burning of biomass fuel.



EILC Estyma Iterative Learning Control

The first controller in Poland, which can learn. The algorithm idea based on the past burning process data and adjust according to the fluctuations in the quality of the fuel. This means that the parameters reached under laboratory conditions can be achieved in every day use. With every kilogram of burned fuel the algorithm improves. A similar algorithm is well known in the automotive industry.



EFL3 Estyma Fuzzy Logic 3

All versions of EFL including the third are based on Fuzzy Logic. Good power control of the burner is paramount for constant burning that ensures high temperature in the burning chamber. High temperatures ensure complete combustion and low emissions and high efficiency.

Technology



Utilization of user-friendly touch screen technology and gesture recognition enhances usage. A high performance microprocessor with external SDRAM memory ensures seamless animation. All of our devices use CAN bus derived from the automotive industry, this means that it is highly reliable with a distance of up to 1 km between devices. A Micro SD socket provides very easy software upgrade. Intensive laboratory tests at both the early and late steps of development guarantee us with high levels of performance.



Functionality

- intuitive menu providing everyday maintenance by one screen
- indication of the remaining fuel is on two ways: (with sensor or calculating)
- weekly time programs separate for: heating, hot water and boiler
- learning algorithm EILC
- power modulation FL3
- different access levels for menu and for settings (user, service and manufacturer)
- auto configuration of sensors and functions
- extended statistics feature (the analyses of boiler work available for installer and manufacture)





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