

# AUTOMATION CONTROLLER (AC) "EVO NGC"

## PURPOSE OF THE PRODUCT

EVO NGC is a controller for creating automated control systems for technological equipment.

## SPECIFICATIONS

<b>OVERALL DIMENSIONS</b>	<b>Length, max</b> - 235 mm <b>Width, max</b> - 105 mm <b>Height, max</b> - 70 mm <b>Weight</b> - no more than 500 grams
<b>POWER SUPPLY</b>	<b>Supply voltage, V:</b> 9 ... 28 <b>Consumed current, A, no more:</b> 0.75 <b>Reverse polarity protection</b> <b>Overcurrent protection</b> <b>Overvoltage protection</b>
<b>ETHERNET</b>	<b>Supported physical layer protocols:</b> 10BASE-T, 100BASE-TX
<b>USB</b>	<b>Supported standards:</b> USB 2.0 Full-Speed data transmission format: virtual serial port <b>Supported OS:</b> Windows 8/7 / Vista / Server 2003 XP / 2000, Mac OS-X / OS-9, Linux
<b>RS-485</b>	<b>Max data transfer rate, kbps:</b> 115200 <b>Max number of connected devices:</b> 32
<b>GSM</b>	<b>Ranges:</b> FDD-LTE: 1800MHz (B3) / 900MHz (B8) / 800MHz (B20) GSM / GPRS / EDGE: 900 / 1800MHz <b>Protocols and baud rate:</b> LTE Cat. M1 (eMTC): 300Kbps (DL), 375Kbps (UL) <b>Cat. NB (NB-IoT):</b> 36Kbps (DL), 66Kbps (UL) <b>EDGE:</b> 236.8 kbps (DL), 236.8 kbps (UL) <b>GPRS:</b> 85.6 Kbps (DL), 85.6 (UL) <b>Support for receiving and sending SMS</b>
<b>BLUETOOTH</b> <i>(disabled by default)</i>	<b>Band:</b> 2.4 GHz <b>Standard:</b> Bluetooth LE 5.1
<b>DIGITAL INPUTS</b>	<b>Number:</b> 8

	<b>Type:</b> galvanically isolated, by "minus" <b>Rated current consumption, mA:</b> 10 <b>Isolation voltage, RMS V:</b> 2500
<b>DIGITAL OUTPUTS</b>	<b>Quantity:</b> 12 <b>Type:</b> Open collector <b>Maximum output current, mA:</b> 100 <b>Maximum voltage, V:</b> 40
<b>PWM OUTPUTS</b>	<b>Quantity:</b> 4 <b>Type:</b> Open collector <b>Maximum output current, mA:</b> 100 <b>Maximum voltage, V:</b> 40 <b>PWM frequency, Hz:</b> 100 ... 10000
<b>ANALOG INPUTS 4...20 mA</b>	<b>Quantity:</b> 4 <b>Type:</b> Current loop <b>Maximum current, mA:</b> 30 <b>Voltage drop, mV, no more:</b> 150
<b>ANALOG INPUTS 0...10V</b>	<b>Quantity:</b> 4 <b>Maximum voltage, V:</b> 12 <b>Overvoltage protection:</b> Yes <b>Input impedance, kOhm, not less:</b> 150
<b>1-WIRE BUS</b>	<b>Quantity:</b> 3 <b>Maximum number of connected devices:</b> 32 <b>The possibility of parasitic power:</b> Yes <b>Supported baud rates:</b> Standard and overdrive <b>Rated voltage on the bus, V:</b> 5

**CONSTRUCTION TYPE** – Stationary

**PROTECTION DEGREE** – Not less than IP20

**MODE OF OPERATION** – Continuous round-the-clock

AC is not for installation and operation in explosive and fire hazardous conditions.  
Precious metals did not exist.

The spacecraft is not for work in special environments.  
Qualified personnel are required for installation and use.

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## **DISPOSAL INFORMATION**

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The box does not belong to environmentally hazardous products and does not harm the environment and human health during storage, transportation, operation and disposal. No special measures to protect the environment from harmful effects are required when disposing of the device.