

Quick installation guide



MICO24 Nano is a data acquisition circuit developed by Effitronix, especially designed for Industry 4.0. The device is capable of performing production controls, quality controls and predictive maintenance. Based in IoT technology, it is easy to install and automatically sends all the signals to the MICO24 platform, which analyses and manages them directly from the cloud.

This quick guide indicates the hardware features of MICO24. It contains the necessary information in order to make a quick installation for a standard application. For more information consult Effitronix webpage (www.effitronix.com).



Before carrying out any maintenance or modification of connections, make sure the equipment is disconnected from the power. Bear in mind that when the equipment is connected, the terminals can be dangerous if touched.



Before connecting the equipment, read all the information and manuals carefully. If you use the equipment in a manner not specified by the manufacturer, protection and safety could be compromised.



The circuit must be protected against overintensity and overvoltage.

1. Technical Characteristics

General	
Supply voltage	24Vdc: 10% \pm
Consumption	5W
Temperature	0-50°C
Humidity	5-95%
Dimensions	120x120x45mm
Weight	270g
Protection	IP-20
Digital inputs PNP	
Voltage	24Vdc \pm
Intensity	30mA
Max. frequency	120Hz
Digital outputs NPN NO	
Voltage	24Vdc \pm
Intensity	500mA
Medida control motor	
Voltage	V _{L-L} 100-500Vac \sim
Voltage	V _{L-N} 60-285Vac \sim
Frequency	50-60Hz
Input impedance	5M Ω
Analog inputs	
Voltage inputs	0-10V \pm
Intensity inputs	4-20mA

Input list

- 3 Digital inputs PNP
- 5 Analog inputs 4-20mA
- 4 Analog inputs 0-10Vdc \pm
- 3 PT100 temperature sensors
- 1 Motor control (intensity and voltage)

Output list

- 3 Digital outputs NPN NO

Connectivity

Internet connection by cable and AP Wifi

2. Status LEDs

Status LEDs



	Start up: Auto test sequence
Light 1	BLUE - Equipment controlled in standby GREEN - Equipment controlled in operation RED - Equipment controlled in alarm
Light 2	GREEN - Equipment connected to LAN network RED - Equipment NOT connected to LAN network
Light 3	GREEN - Sending data to web platform YELLOW - Error sending data to web platform

PWR

- ON: Equipment powered
- OFF: Equipment not powered

TR

- Flashing: Intensity transformers measuring

I0, I1, I2

- Digital input

O0, O1, O2

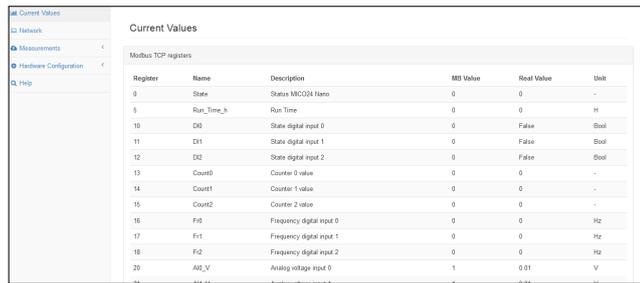
- Digital output

3. Data visualizations

To access the configuration website for MIC024 for the first time, connect to your Wi-Fi network and enter your default IP on any browser. The SSID of the Wi-Fi network generated by MIC024 Nano is Nano_XXXXXXX, where XXXXXXX corresponds to the digits of the MIC024 Nano serial number, which can be checked on the side label. The password to access the Wi-Fi network is *mico24nano*.

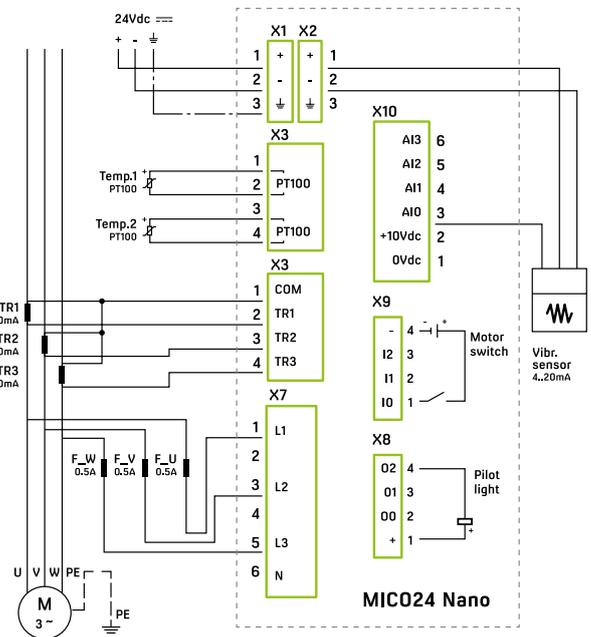
Once connected to the MIC024 Nano Wi-Fi network, you can access the configuration web server, entering the address 192.168.100.1 from the browser of any mobile device or PC.

User: *admin* Password: *admin*



Current values consulting screenshot.

4. Motor connection example



- The circuit can be mounted on DIN rail EN 60715
 - Power supply cable 0,2-1,5mm

5. Regulations

Security	EN 61010-1 EN 61010-2-30 CATIII 300
Emissions	EN 55032:2015
Immunity	EN61000-4-2 EN61000-4-3 EN61000-4-4
Utility model	U201830158



C. Osona 16
 08551 Tona
 Barcelona
 T +34 93 812 43 82

www.effitronix.com
 info@effitronix.com

