



INSTALLATION AND OPERATION MANUAL

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1 • MAIN FEATURES

- Installation: on R-BUS (x) backplane
- DB9 male connector
- 24Vdc power supply
- Controls 16 GILOGIK II modules

2 • INSTALLATION AND CONNECTION



This section contains the instructions necessary for correct installation of the GILOGIK II into the machine control panel or the host system and for correct connection of the system power supply, inputs, outputs and interfaces.

Before proceeding with installation read the following warnings carefully!



Remember that lack of observation of these warnings could lead to problems of electrical safety and electromagnetic compatibility, as well as invalidating the warranty.

Qualified staff

the installation and use of the system and components are only reserved at qualified staff.

Conform use

The system and relative components are usable exclusively to the use previewed in the manual.

In order to guarantee a correct and sure operation are indispensable that the product comes transported, stored correctly, installed, and controlled second the previewed modalities.

Suitable for use in pollution degree 2 environment.

Open type equipment.

Electrical power supply

- The GILOGIK II is NOT equipped with an On/Off switch: the user must provide a two-phase disconnecting switch that conforms to the required safety standards (CE marking), to cut off the power supply upstream of the system. The switch must be located in the vicinity of the system and must be within easy reach of the operator. One switch may control more than one systems.
- To make sure that the system very is connected to earth second the detailed lists of the relative understood one it.
- If the system is used in applications with risk of damage to persons, machinery or materials, it is essential to connect it up to auxiliary security equipment. It is advisable to make sure that alarm signals are also triggered during normal operation. The dispositif must NOT be installed in flammable or explosive environments; it may be connected to equipment operating in such atmospheres only by means of appropriate and adequate types of interface, conforming to the applicable safety standards.

Notes Concerning Electrical Safety and Electromagnetic Compatibility:

CE MARKING: EMC Conformity (electromagnetic compatibility)

- Compliance with Directive 2014/30/EU EN61131-2: Programmable controllers Part 2: Equipment requirements and tests.

The GILOGIK II system is mainly designed to operate in industrial environments, installed on the switchboards or control panels of productive process machines or plants.

The Declaration of conformity is available on GEFTRAN web: www.gefran.com

- **UL listed standard:** UL508 file E198546

Module power supply

- Supply with class 2 device
- The power supply to the modules on the switchboards must always come directly from an isolation device with a fuse.
- The electronic instruments and electromechanical power devices such as relays, contactors, solenoid valves, etc., must always be powered by separate lines.
- When the power supply is strongly disturbed by the commutation of transistor or power units or motors, an isolation transformer should be used, earthing the screen.
- It is essential that the plant has a good earth connection:
 - the voltage between neutral and earth must not be > 1V
 - the Ohmic resistance must be < 6Ω;
- In the proximity of high frequency generators or arc welders, use adequate filters.
- The power supply lines must be separate from the instrument input and output ones.



GEFRAN S.p.A. declines all responsibility for any damage to persons or property caused by tampering, neglect, improper use or any use which does not conform to the characteristics of the controller and to the indications given in these Instructions for Use.

3 • TECHNICAL DATA

Protocol

Physical layer: CANopen 2.0B
 CANopen Level: DS301 v. 3.0, v. 4.0
 SDO: 1 server 0 client
 PDO: 20TX, 20RX
 Profile: DS401

CAN Line

Optically isolated
 Speed: 20kbit/s...1Mbit/s
 Programmable software
 Addressing: rotary switch max. 99 nodes
 Termination: external via 120Ω resistance

Cabling

Distance: max 100m at 500Kbit/s
 Wire: AWG22/24
 Connectors: 9 pin F SUB D
 Line termination: external, 120 Ohm impedance

Process image

Number of I/O: 160
 Configuration: via Software with Grafinet Studio or EDS files supplied

Power supply

Voltage: 24Vdc ± 25%
 Current: 2A max
 Connector: 2 pin F, spring contacts, cage clamp

Dimensions and Weight

Dimensions: 92x90x25.4mm
 Weight: 150g.
 Fastening: snaps on R-BUS(x)

Diagnostics

Yellow LED (POWER): power on
 Green LED (DATAEX): communication in progress
 Red LED (ERROR): CAN communication in error or module malfunction

Certifications:

CE, UL

Ambient Condition

Working Temperature: 0...50°C
 Storage Temperature: -20...70°C
 Humidity: max. 90% Rh not condensing
 For UL: Maximum surrounding air temperature 50°C

5 • WEEE INFORMATION



Pursuant to Article 26 of Italian Legislative Decree no. 49 of 14 March 2014 "Implementation of Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)".

The symbol showing a crossed-out wheeled bin on equipment or its packaging indicates that the product must be collected separately from other waste at the end of its useful life.

The manufacturer is responsible for organising and managing the separate collection of this piece of equipment at the end of its useful life.

Users wishing to dispose of the equipment must therefore contact the manufacturer to obtain instructions from the same on how to have the equipment collected separately at the end of its useful life. By collecting the disused equipment separately, it can be recycled, treated or disposed of in an environmentally friendly manner, thus helping to prevent the environment and public health from being affected negatively and enabling reuse and/or recycling of the materials forming the same equipment.

4 • CONNECTIONS

