



INSTALLATION AND OPERATION MANUAL

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1 · MAIN FEATURES

- Inputs for devices with SSI interface
- Indication of position and speed
- Software configuration of inputs
- Diagnostic LEDs for power supplies and alarm
- Removable connectors supplied

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.

Notes Concerning Electrical Safety and Electromagnetic Compatibility:

- **CE MARKING: EMC Conformity (electromagnetic compatibility)**
Compliance with the 2014/30/EU EN61131-2: Directive 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.

Norm of applicable product EN 61131-2.

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

Module power supply

- Use class 2 power supply
- The power supply of the modules on board the switchboards must always come directly from a fused circuit breaker device.
- Electronic instrumentation and electromechanical power devices such as relays, contactors, solenoid valves, etc., must always be powered with separate lines.
- When the power supply line is strongly disturbed by the switching of thyristor power units or motors, it is advisable to use an isolation transformer, connecting the screen to earth.
- It is important that the system has a good earth connection:
 - the voltage between neutral and earth must not be > 1V
 - the Ohmic resistance must be < 6Ω;
- Suitable filters should be used in the vicinity of high-frequency generators or arc welding machines.



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

- 4 SSI inputs
- SSI clock frequency from 10kHz to 2MHz
- number of bits of the data at 24, 25 and 32 bits
- data coding as binary and Gray
- diagnostics of connection interruption with the sensor that can be enabled or disabled
- input isolation >2KV
- overvoltage on inputs for 1ms max. 1kV
- Power supply: via R-BUS(x) 3.3V backplan

Diagnostics

- Yellow LED presence of 24V external power supplies
- Green LEDs for CLOCK and DATA status
- Red Fail LED, module error

Sensors power supply

8÷32Vcc ± 25% 500mA max. external (fed to front terminals). Power supply is internally distributed to the 4 channels and is configurable at +5V or to the voltage applied externally.

Mechanical data

Dimensions: 92x90x25,4mm
 Weight: 120 g. max
 Attachment: snaps onto R-BUS(x)
 Protection level: IP20

Ambient Conditions

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

4 · CONNECTIONS

SUPPLY: 8÷32Vcc ± 25% 500mA max, Use cables with 0.5 mm² max.

CLOCK / DATA: Use cables with 0.5 mm² cross-section. Do not apply a lug.

