GEFRAN

CE

Main applications

- *Machine control:*
  - *Heat treatments*
  - *Packing*
  - *Wood*
  - *Metalworking*
  - *Climatic chambers*
  - *Dryers*
  - *Plastic auxiliaries*

Main features

- *3,5" TFT colors display*
- *Resolution 320x240 pixels (QVGA)*
- *Touch screen: resistive, analog*
- *Field bus connectivity*
  (CANOpen, Modbus RTU, Modbus TCP)
- *Ethernet 10/100 BaseT*
- *Integrated SoftPLC [IEC61131-3]*
- *No hard disk*
- *Programmable with:*
  Gefran Automation Builder

PROFILE

"All-in-One"
HMI, SoftPLC and remote I/Os, completely integrated in a single product.
The GF_VEDO EL 35CT operator terminal offers maximum compactness and integration of all elements in an automation architecture.
The display section has a 3.5" color (262K) TFT display with 320x240 pixel (QVGA) resolution, 400:1 contrast and luminosity of 400cd/m².
Visual angle O/V: 75°/55°-75°.
Integrated touch-screen, resistive, four wires.
The front panel has six freely programmable function keys [F1...F6].
The bottom section houses the communication ports (including the Ethernet 10/100 supplied as standard) used for programming and diagnostics or for transmission via Modbus TCP protocol.
Other ports, such as USB, RS485 [Modbus RTU] and CAN [CANopen or Device-Net] are optional.
The product integrates with GILOGIK II I/O modules via the BUS-G connector at the rear of the product.
The back-plane [L-BUS4] inserted into the BUS-G connector lets you install up to four of any module in the GILOGIK II series to quickly and flexibly create a

variety of automation solutions.
The SoftPLC is programmed and graphics pages are created with a single programming environment called Gefran Automation Builder [GAB].
This software can be used to program all products in the GF_VEDO family.
The product offers the highest resistance to vibration and shock, and has a front panel protection level of IP65.
These characteristics make it ideal for use under harsh environmental conditions.

TECHNICAL DATA

DISPLAY
Type: TFT colors
No.colors: 262k
Size: 3,5"
Resolution: 320x240 pixel (QVGA)
Luminosity: 400 cd/m²
Contrast: 400:1
Backlighting: 6 LEDs white
Visual angle O/V: 75°/55°-75°

TOUCH SCREEN
Type: Resistive, 4 wires
Life: 1.000.000 operations
Controller: integrated

PROCESSOR
Type: EP9307 Cirrus Logic
Frequency: 200 MHz
Core: ARM9

MEMORY
System: 64 MB (DRAM)
User: 256 KB (SRAM)
Mass: 64 MB (FLASH)

OS SUPPORTED
Linux

GENERAL DATA

Front dimensions: 100x100x64mm
Drilling dimensions: 93x93mm
Weight: 0,4 Kg
Front panel protection: IP65
Working temperature: 0…50°C
Storage temperature: -20°C…70°C
Humidity: 5...95% non- condensing
    (IEC 68-2-3)
Power supply: 24Vdc, ±25%
Max consumption:
    • (without integrated I/O) 240mA, 5W
    • (with integrated I/O) 360mA, 7W
Certifications: CE, UL

PERIPHERAL I/O

Name: ETH
Type: Ethernet 10/100 Mbps
     Base-T
Connector: RJ45 with LEDs

Name: RS485
Type: RS485 serial
Connector: RJ10 4p4c
Optically isolated: YES
Baud rate: 9,6…115 kBaud

Name: USB
Type: USB 2.0 HOST (500mA)
Connector: 4-pin type A

Name: CAN
Function: CAN layer 2
Connector: D-Sub 9PM (CANopen)
Baud rate: 20k...1Mbit/s (CANopen)

Name: BUS-G
Function: I/O expansion
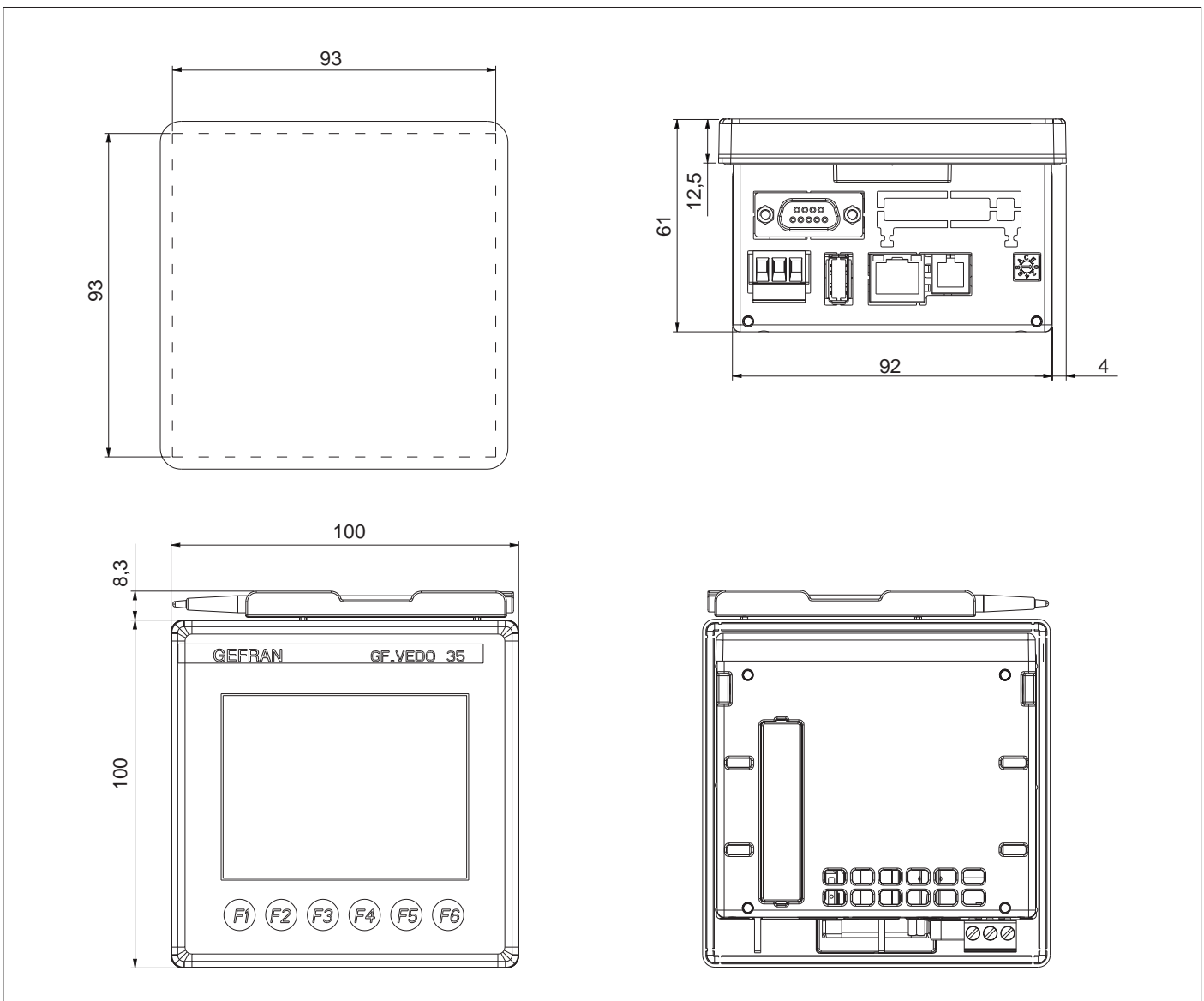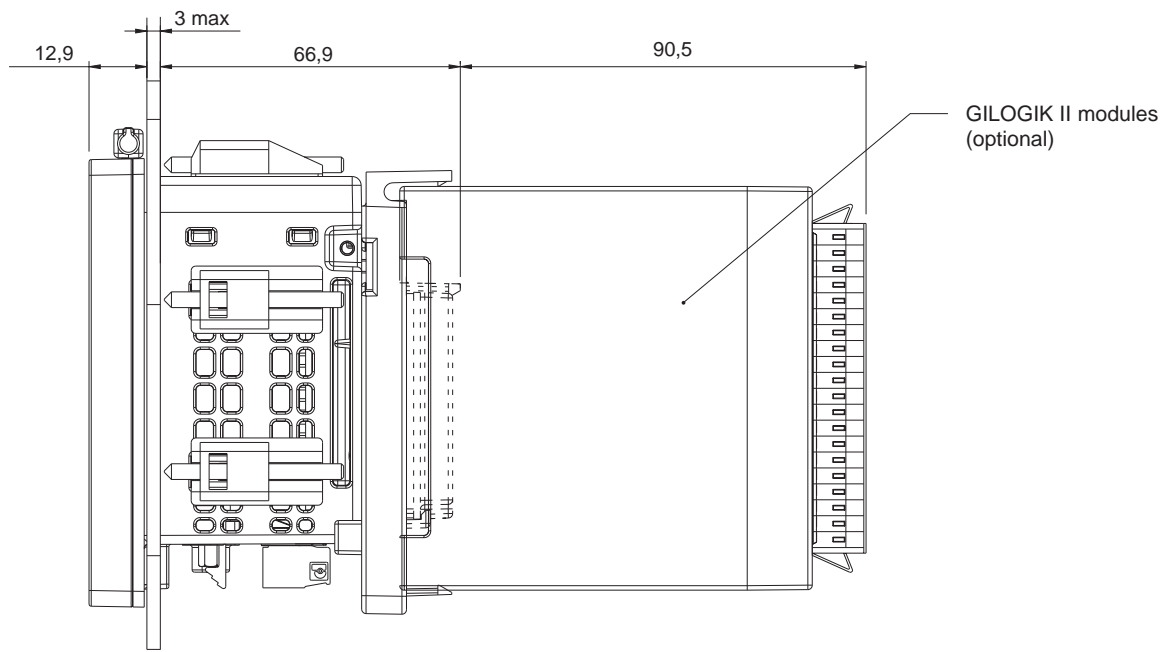Connector: 50 pins, comb type

DIMENSIONS AND CUT OUT

GILOGIK II modules
(optional)

3 max

12,9   66,9   90,5
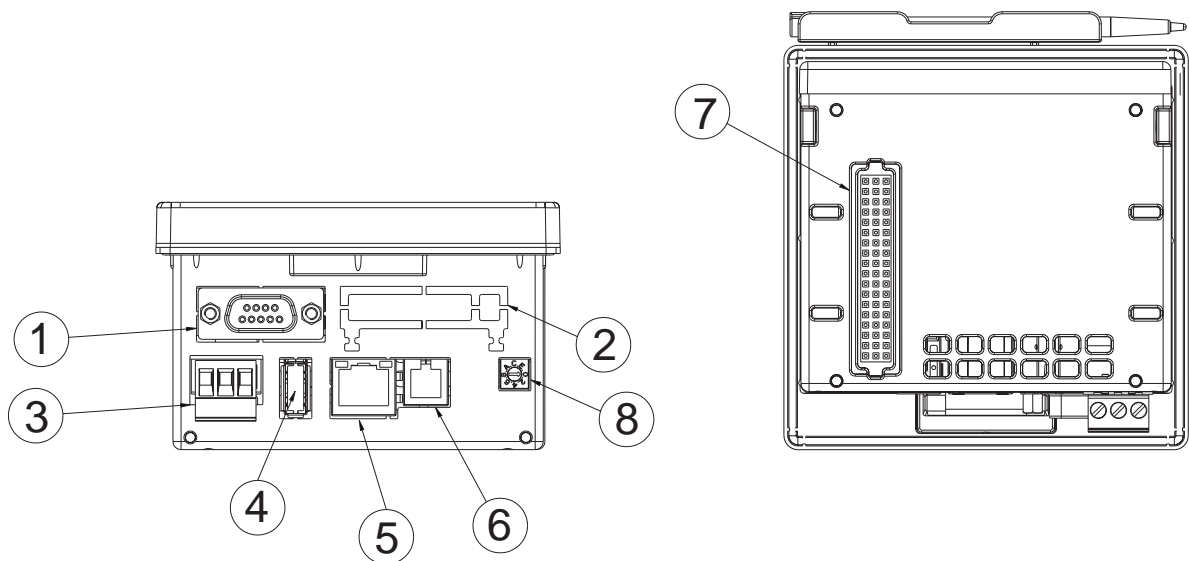
CONNECTIONS

Name	Denomination	Description
1	CAN	CAN layer 2
2	-	reserved for future use
3	24VDC	24Vdc, ±25%
4	USB	USB 2.0 HOST
5	ETH	Ethernet 10/100 base-T
6	RS485	Optoisolated RS485 serial
7	BUS-G	GILOGIK II I/O connection bus
8	-	Rotary-switch

CONNECTION EXAMPLES

[HMI]
GF_VEDO EL 35CT

Company Ethernet

Modbus RTU

[HMI]
GF_VEDO ML 104CK

[HMI]
GF_VEDO EL 35CT

Modbus TCP/IP

ORDER CODE

GF_VEDO

MODEL	
3,5" color display + touch screen	35CT

OPERATING SYSTEMS	
Linux	LX0

EXPANSION 1	
None	00
RS485 serial	S1

1) Please, contact GEFRAN sales people for the codes availability.

LEXAN		
	G	Gefran
1)	N	Neutro

EXPANSION 3		
	0	None
	U	USB

EXPANSION 2		
	00	None
	C1	CANopen
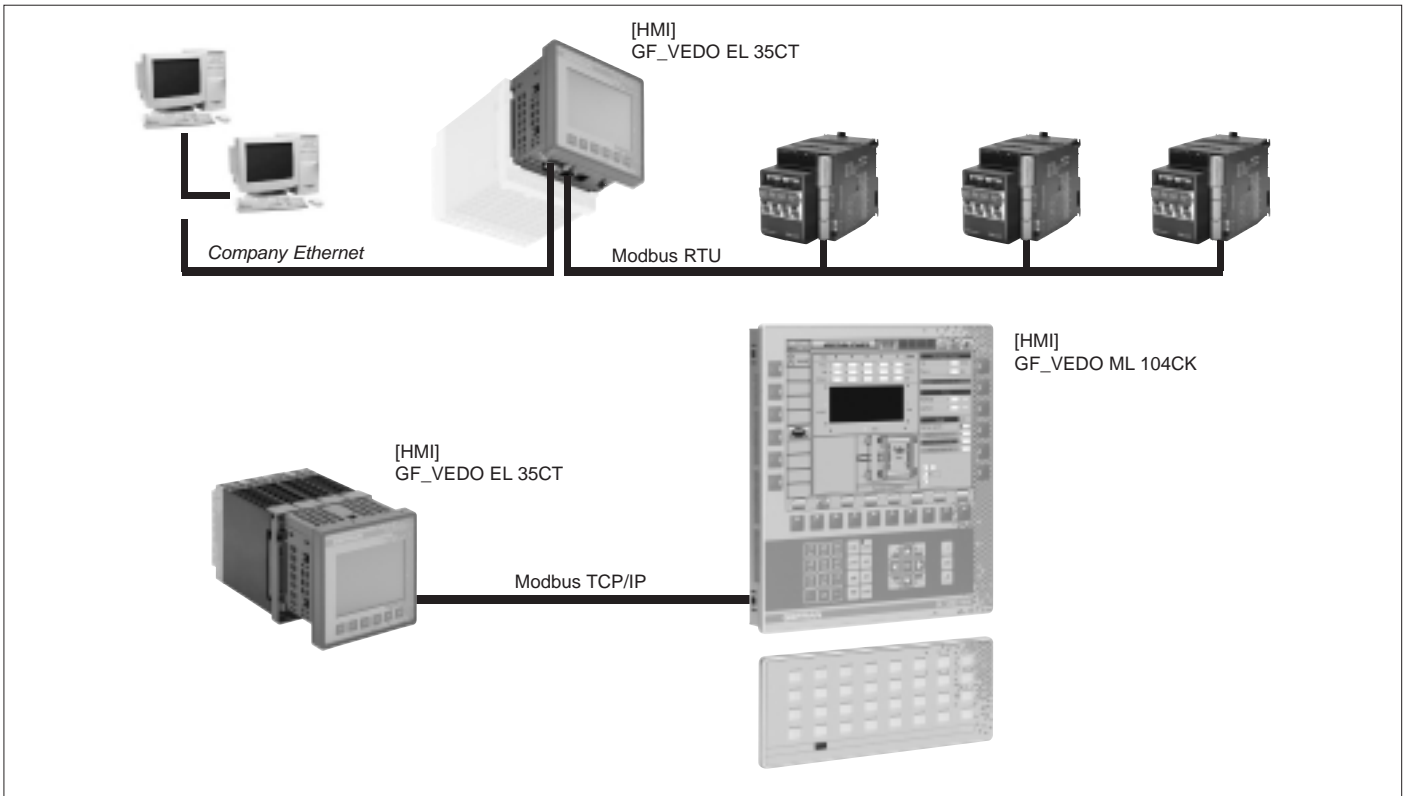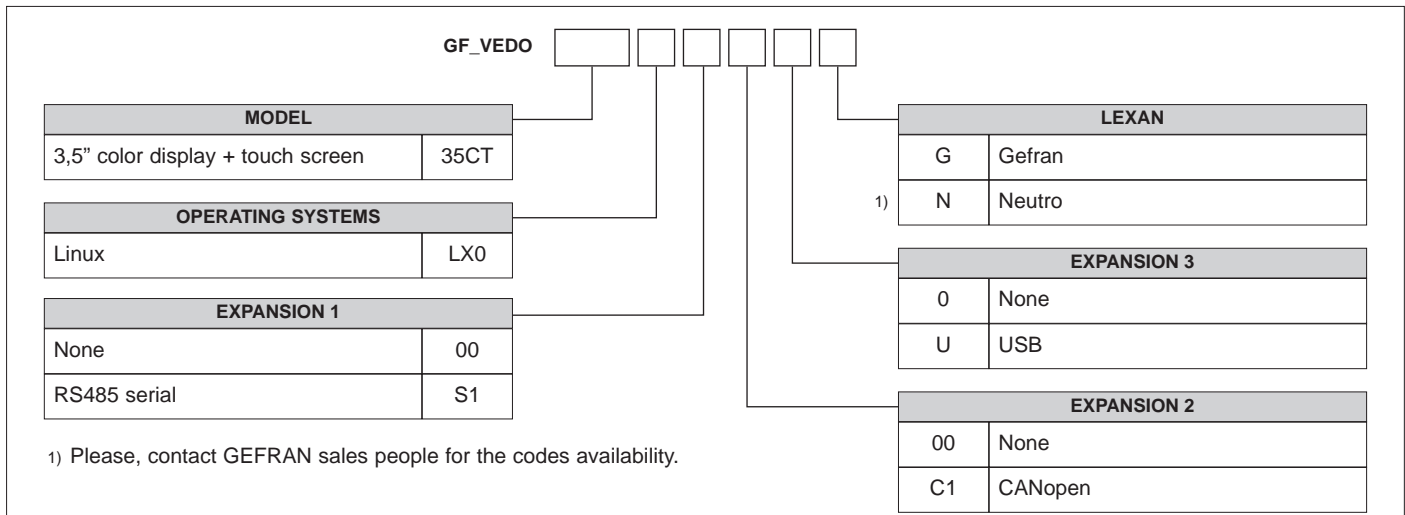
GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice

ACCESSORIES

F041993 . . . . . . L-BUS4 4-solt back-plane module supports a maximum of 4 GILOGIK II I/O modules

Conformity C/UL/US File no. E198546

In conformity to ECC 2004/108/CE (EMC) and 2006/95/CE (LVD) with reference to: **EN 61131-2** (product) **EN 61010-1** (safety).

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