

40T 96

UNIVERSAL TEMPERATURE and PRESSURE INDICATOR - ALARM UNIT

CE

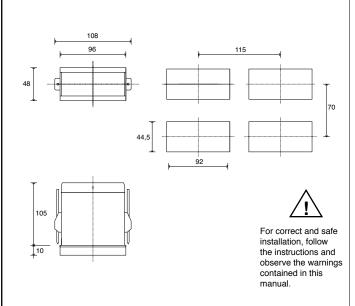


INSTALLATION and OPERATION MANUAL

SOFTWARE VERSION 3.2x (includes R77 version) code 816411 / edition 15 - 07-2011

1 · INSTALLATION

· Dimensions and cut-out; panel mounting



Panel mounting:

Fix the device with the bracket provided before making any electrical connections.

To mount two or more devices side by side, use the cut-out dimensions shown above.

CE MARKING: The instrument conforms to the European Directives 2004/108/CE and 2006/95/CE with reference to the generic standards: **EN 61000-6-2** (immunity in industrial environment) **EN 61000-6-3** (emission in residential environment) **EN 61010-1** (safety)

MAINTENANCE: Repairs must be done out only by trained and specialized personnel. Cut power to the device before accessing internal parts.

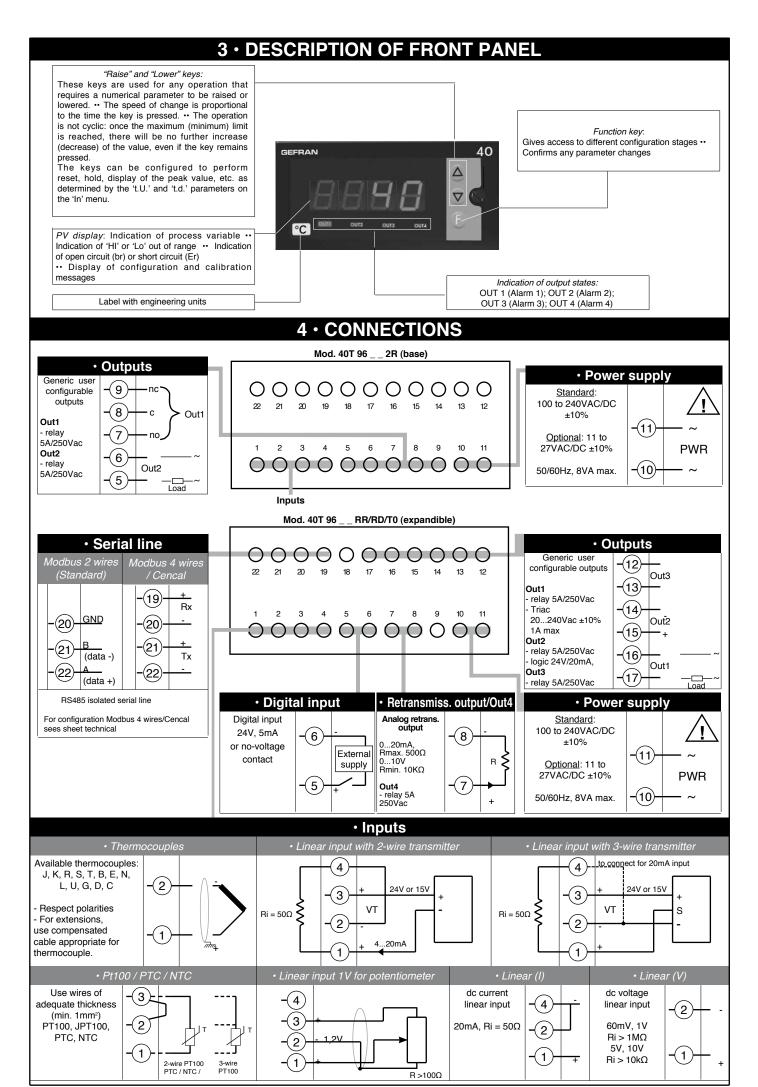
Do not clean the case with hydrocarbon-based solvents (Petrol, Trichlorethylene, etc.). Use of these solvents can reduce the mechanical reliability of the device. Use a cloth dampened in ethyl alcohol or water to clean the external plastic case.

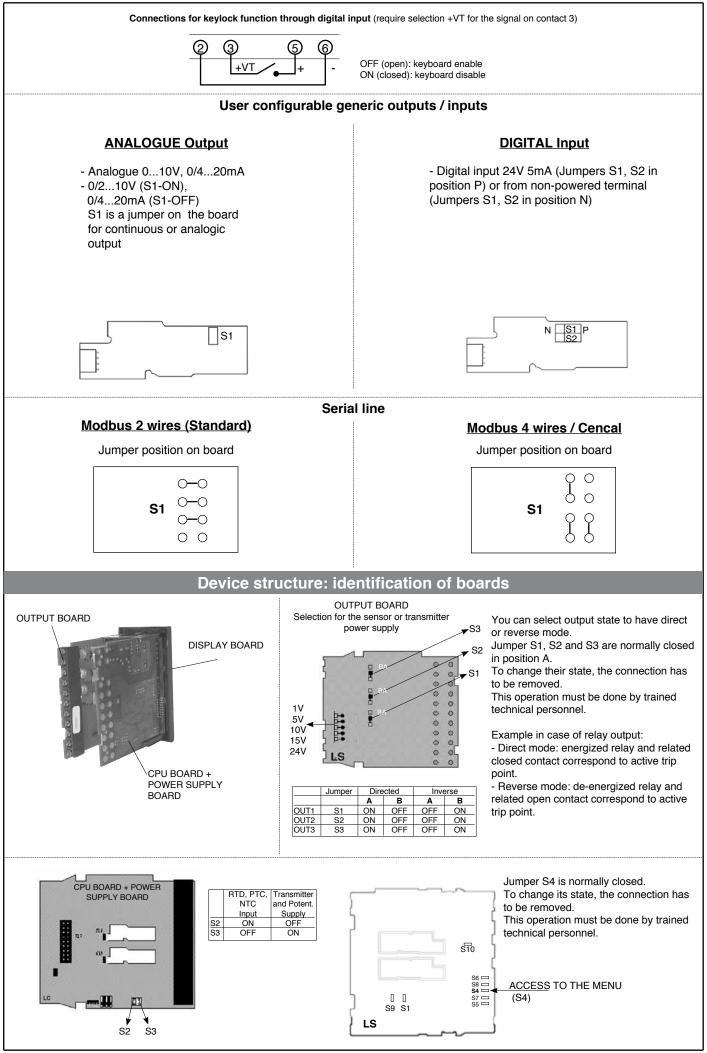
SERVICE: GEFRAN has a service department. The warranty excludes defects caused by any use not conforming to these instructions.

EMC conformity has been te	ested with the following	connections
FUNCTION	CABLE	LENGTH. USED
TC input probe	0,8 mm ² compensated	5 mt
"PT100" input	1 mm ²	3 mt
probe		
Power supply cable	1 mm ²	1 mt
Relay output cables	1 mm²	3,5 mt

2 · TECHNICAL SPECIFICATIONS 3, 4 digit red LED's digit height 20mm (3 digits), Display digit height 14mm (4 digits) 3 mechanical keys (Raise, Lower, F) Keys Accuracy 0.2% f.s. at 25°C, amb. temperature ts Thermal drift =120msec Resolution 0.005% f.s./°C (unction of settable sample 120msec. >14bit 60msec, >14bit (only for linear inputs) time) 30msec, >13bit (only for linear inputs) Main input 15msec, >12bit (only for linear inputs) TC, RTD, PTC, NTC 60mV, 1V Ri \ge 1M Ω ; 5V, 10V Ri \ge 10K Ω 20mA, $Ri = 50\Omega$. adjustable digital filter Thermocouples J, K, R, S, T, B, E, N (IEC 584-1, CEI EN 60584-1, 60584-2) L GOST, U, G, D, C. Custom linearization available on request Cold junction error 0,1° / °C RTD type (scale configurable DIN 43760 (PT100), JPT100 within indicated range, with or without decimal point) Max. RTD line resistance 20Ω PTC type / NTC type 990Ω. 25°C / 1KΩ. 25°C

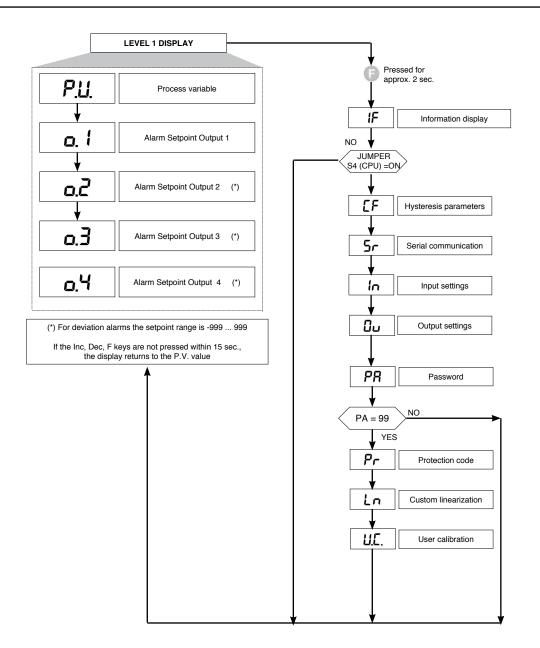
Max non-linearity error See tP parameter °C / °F selection Faceplate configurable Linear scale range -1999...9999 (with 4 digit display) -999...999 (with 3 digit display); punto Configurable decimal point position, possible 3 segment linearization Logic input 24V, 5mA or no-voltage contact Function of logic configurable to reset memory latch, hold, input flash, zero, select max./ min. peak, peakpeak value Alarms Maximum of three configurable alarms: (Trip points) absolute, deviation, symmetrical deviation. Adjustable hysteresis Alarm - exclude on power-up masking - latch reset from key and/or external contact - insert delay filter (DON, DBI, DOF, DPO) - set minimum intervention time Relat contact NO (NC) 5A 250Vac, 30Vdc 24Vdc, 10V at 20mA, limitation to 30mA Logic output Triac output 20...240Vac ±10%, 3A max. Snubberless, inductive and resistive load I2t = 128A2S Fault settings Alarm states can be configured in probe fault condition Transmitter / Sensor power 24V ±10%, 50mA 15V for transmitter, max. 50mA Supply (option) 1,2V for potentiometer > 100Ω 10V Rmin 50K - 0/4...20mA Rmax. 500Ω Analog retransmission resolution 12bit (option) (std) 100...240Vac/dc ±10%. 50/60Hz. 18VA Power supply (opt) 11...27Vac/dc ±10%, 50/60Hz, 11VA (switching) Fuse (inside device, not 100 to 240VAC/DC -type T-500mA-250V 11 to 27VAC/DC - type T - 1,25A - 250V operator serviceable) Faceplate protection IP65 0 to 50°C / -20 to 70°C Working / Storage temperat. Relative humidity 20 to 85% Ur non condensing Environmental conditions of use for internal use only, altitude up to 2000m Installation Panel mounting, extractable from front Weight 320 g for the complete version





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5 • PROGRAMMING and CONFIGURATION

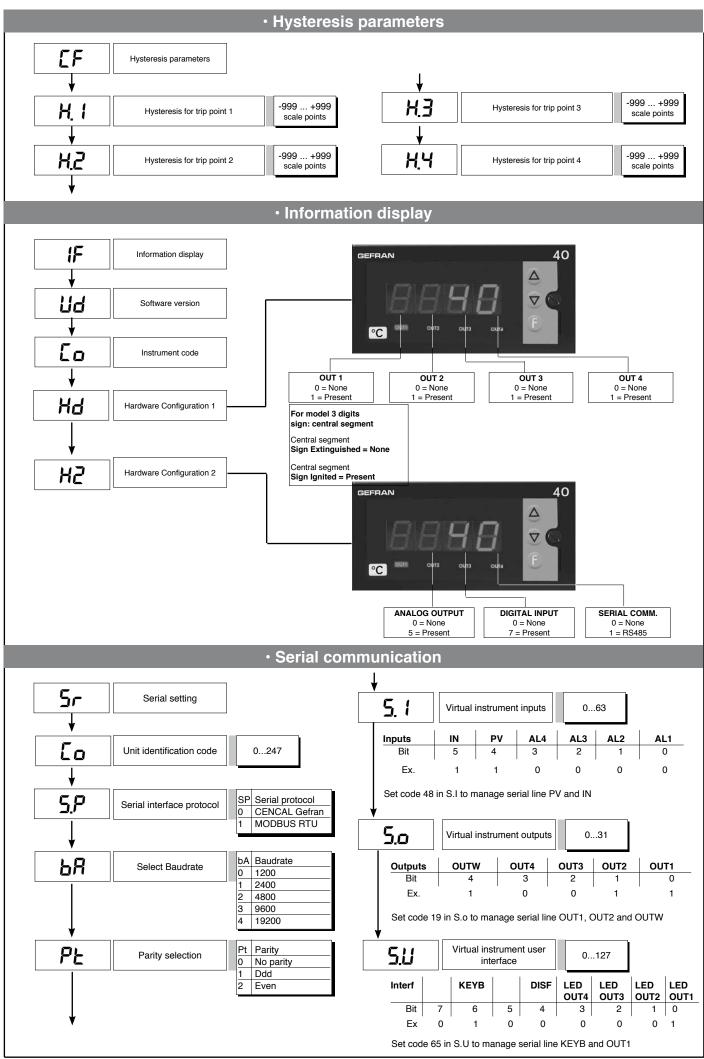


Keep the F key pressed to browse the menus.

Release the F key to enter the displayed menu.

Press the F key to access the parameters.

Keep the F key pressed to exit any menu at any time.



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TC/LIN input parameters

In	Input settings
ŁP	Type of probe, signal and scale o main input

	-	main ir	iput		
TYPE	Type PROBE	4 DI	GIT	3 DIGIT	+ sign
		without dec. point	with dec. point	without dec. point	with dec. point
- F	robe: TC TC J °C	0/1000	0.0/999.9	0/999	0.0/99.9
1	TC J °F	32/1832	32.0/999.9	32/999	32.0/99.9
2	TC K °C	0/1300	0.0/999.9	0/999	0.0/99.9
3	TC K °F	32/2372	32.0/999.9	32/999	32.0/99.9
4	TC R °C	0/1750	0.0/999.9	0/999	0.0/99.9
5	TC R °F	32/3182	32.0/999.9	32/999	32.0/99.9
6	TC S °C	0/1750	0.0/999.9	0/999	0.0/99.9
7	TC S °F	32/3182	32.0/999.9	32/999	32.0/99.9
8	TC T °C	-200/400	-199.9/400.0	-200/400	-99.9/99.9
9	TC T °F	-328/752	-199.9/752.0	-328/752	-99.9/99.9
10	TC B °C	44/1800	44.0/999.9	not available	not available
11	TC B °F	111/3272	111.0/999.9	not available	not available
12	TC E ℃	-100/750	-100.0/750.0	-100/750	not available
13	TC E °F TC N °C	-148/1382 0/1300	-148.0/999.9 0.0/999.9	-148/999 0/999	not available not available
15	TC N °F	32/2372	32.0/999.9	32/999	not available
16	TC L-GOST°C	0/600	0.0/600.0	0/600	0.0/99.9
17	TC L-GOST °F	32/1112	32.0/999.9	32/999	32.0/99.9
18	TC U °C	-200/400	-199.9/400.0	-200/400	-99.9/99.9
19	TC U °F	-328/752	-199.9/752.0	-328/752	-99.9/99.9
20	TC G °C	0/2300	0.0/999.9	0/999	not available
21	TC G °F	32/4172	32.0/999.9	32/999	not available
22	TC D °C	0/2300	0.0/999.9	0/999	not available
23	TC D °F	32/4172	32.0/999.9	32/999	not available
24	TC C °C	0/2300	0.0/999.9	0/999	not available
25	TC C °F	32/4172	32.0/999.9	32/999	not available
26	TC °C	Custom	Custom	Custom	Custom
27	TC °F	Custom	Custom	Custom	Custom
	Probe: RTD	000/050	-100.0/050.0	000/050	-00.0/00.0
28	PT100 °C	-200/850	-199.9/850.0	-200/850	-99.9/99.9
29	PT100 °F	-328/1562 -200/600	-199.9/999.9 -199.9/600.0	-328/999	-99.9/99.9
30	JPT100 °C JPT100 °F	-200/600 -328/1112	-199.9/600.0 -199.9/999.9	-200/600 -328/999	<u>-99.9/99.9</u> -99.9/99.9
	robe: PTC -		100.01000.0	0201333	33.3133.3
32	PTC °C	-55/120	-55.0/120.0	-55/120	-55.0/99.9
33	PTC °F	-67/248	-67.0/248.0	-67/248	-67.0/99.9
34	NTC °C	-10/70	-10.0/70.0	-10/70	-10.0/70.0
35	NTC °F	14/158	14.0/158.0	14/158	14.0/99.9
F	robe: Voltage	e + Current			
36	060mV	-1999/9999	-199.9/999.9	-999/999	-99.9/99.9
37	060mV	linear custom	linear custom	linear custom	linear custom
38	1260mV	-1999/9999	-199.9/999.9	-999/999	-99.9/99.9
39	1260mV	linear custom	linear custom	linear custom	linear custom
40	020mA	-1999/9999	-199.9/999.9	-999/999	-99.9/99.9
41	020mA	linear custom	linear custom	linear custom	linear custom
42	420mA	-1999/9999	-199.9/999.9	-999/999	-99.9/99.9
43	420mA	linear custom	linear custom	linear custom	linear custom
44 45	010V	-1999/9999 linear custom	-199.9/999.9	-999/999 linear custom	-99.9/99.9
45	010V 210V	linear custom -1999/9999	linear custom -199.9/999.9	linear custom -999/999	linear custom -99.9/99.9
40	210V 210V	linear custom	linear custom	linear custom	linear custom
47	05V	-1999/9999	-199.9/999.9	-999/999	-99.9/99.9
40	05V 05V	linear custom	linear custom	linear custom	linear custom
50	15V	-1999/9999	-199.9/999.9	-999/999	-99.9/99.9
51	15V	linear custom	linear custom	linear custom	linear custom
52	01V/POT	-1999/9999	-199.9/999.9	-999/999	-99.9/99.9
53	01V/POT	linear custom	linear custom	linear custom	linear custom
54	200mV1V	-1999/9999	-199.9/999.9	-999/999	-99.9/99.9
	200mV1V	linear custom	linear custom	linear custom	linear custom
F	robe: Custor				
56	PT100	custom	custom	custom	custom
<u> </u>	JPT				
57	PTC	custom	custom	custom	custom
58	NTC	custom	custom	custom	custom

N.B.: for the version R77 are not available the probe codes 0...39, 48...51, 54...58

Т́В

υ G

D C

error < 0.2% f.s. (t > 300°C)

error < 0.2% f.s. (t > 200°C)

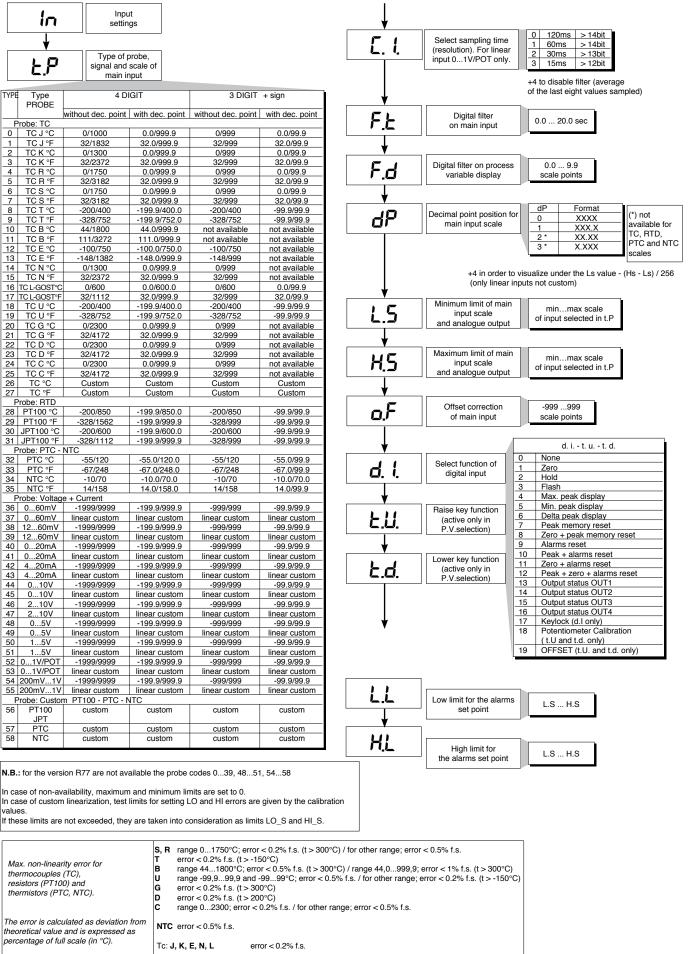
PT100, JPT100 and PTC error < 0.2% f.s.

error < 0.2% f.s.

NTC error < 0.5% f.s.

Tc: J, K, E, N, L

In case of non-availability, maximum and minimum limits are set to 0.



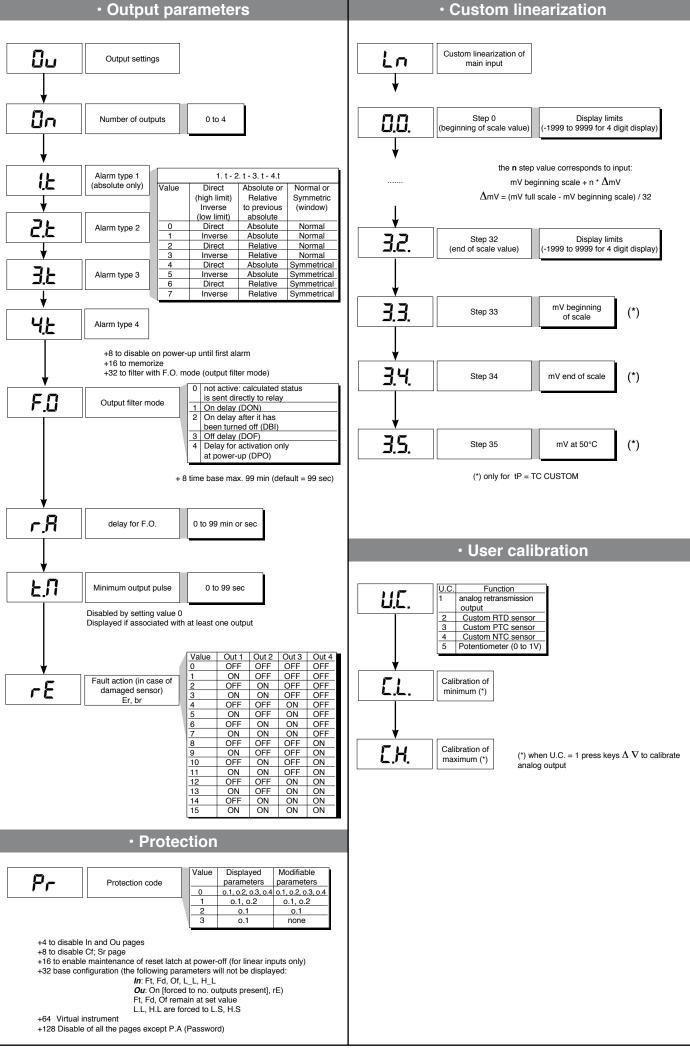
values

Max. non-linearity error for thermocouples (TC), resistors (PT100) and

thermistors (PTC, NTC).

The error is calculated as deviation from

theoretical value and is expressed as percentage of full scale (in °C).



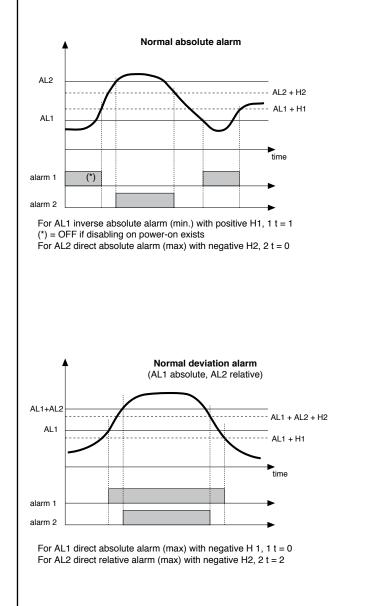
HOLD function

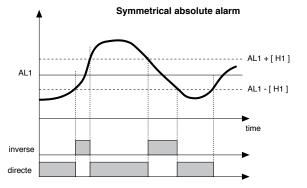
The input value and alarms are frozen while the logic input is closed. With logic input closed, a reset turns OFF both the relay outputs and the alarms latch.

FLASH function

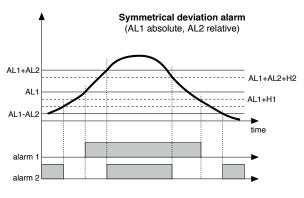
Input value is sampled; state of alarms is not transferred to outputs; outputs are "frozen". When the logic input is active the input value is "frozen" and the outputs are updated according to the calculated alarms state, including the ones latched.

6 · ALARMS





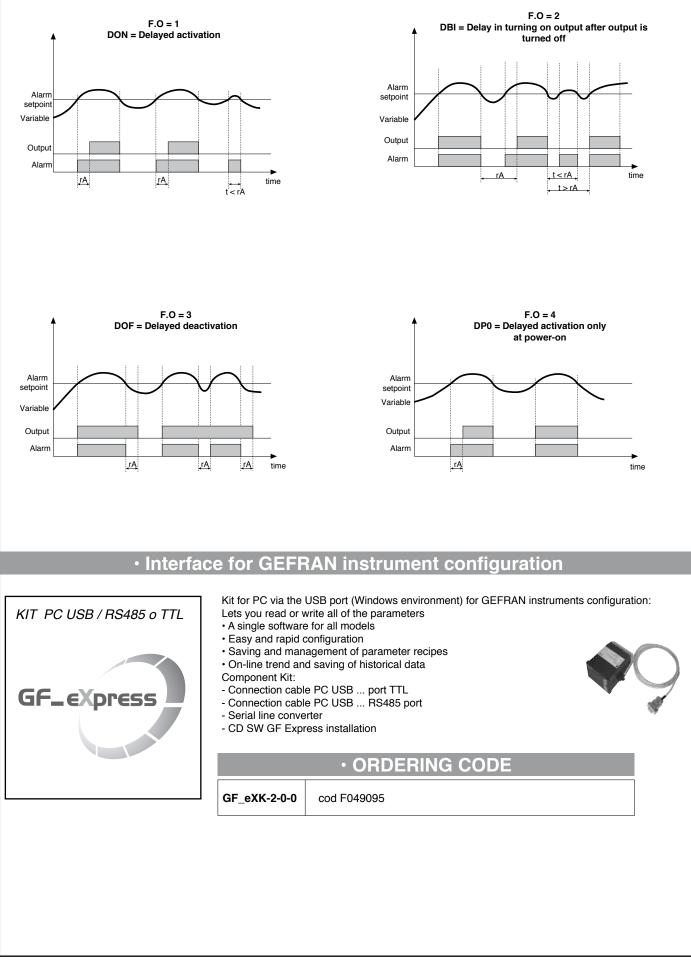
For AL1 inverse absolute, symmetrical alarm with hysteresis H1, 1 t = 5 For AL1 direct absolute, symmetrical alarm with hysteresis H1, 1 t = 4



For AL1 direct absolute alarm (max) with negative H1, 1 t = 0 For AL2 symmetrical deviation alarm H2, 2 t = 6

• Filter - outputs with reference to parameters F.0 and r.A

The diagrams refer to a normal absolute alarm with hysteresis H = 0



					_		
			ORDEF	R CODE			
40	от [96					
							POWER SUPPLY
NR. DIGITS						0	1127Vac/dc
3 + sign	3					1	100240Vac/dc
4	4						
TRANSMITTER POWER SUPPLY						0	DIGITAL COMMUNICATION (**) None
None	00					2	RS485
For T input (alternative to RTD, PT	C, NTC)						
1,2Vdc for potentiometer (**) (*)	01						DIGITAL INPUT /
15Vdc for transmitter (**)	15						RETRANSMISSION OUTPUT (**)
24Vdc, 50mA	24					0	None
All (****)	99					1	Digital input
						0	Analogue output 020mA (010V) (***)
OUT 1, OUT 2	0.0					2	
Relay, Relay	2 R					3	Both (***)
Relay, Relay	RR		_				
Relay, logic	R D T 0						
Triac, Absent	10						
OUT 3, OUT 4 (**)							
None	00						
Relay, absent	R 0	(*) D77 far aa					
Relay, Relay (***)	RR	(*) R77 for po (**) Not availat					2B
		(****) Selectab	e (standa	ard = 24Vdc	C)		
Please, contact GEFRAN s	sales pe	-		-	~		
Please, contact GEFRAN	sales pe	-		ilability.	S		
WARNING: this symbol ind	icates dar	•	WAR	NINGS	S		
٨	icates dar	•	WAR	NINGS	S		
WARNING: this symbol ind It is seen near the power su Read the following warnings befor	licates dan upply circu re installir	nger. lit and near high-volt n g, connecting or u	WAR	NINGS	S		
WARNING: this symbol ind It is seen near the power su Read the following warnings befor follow instructions precisely when c	licates dan upply circu re installin connecting	nger. lit and near high-volt ng, connecting or u the device.	WAR age relay o sing the o	NINGS contacts. device:		pecificatio	ons.
WARNING: this symbol ind It is seen near the power su Read the following warnings befor follow instructions precisely when c always use cables that are suitable the device has no ON/OFF switch	icates dan upply circu re installin onnecting for the vo n: it switch	nger. Init and near high-volt ng, connecting or u the device. Itage and current lev nes on immediately	WAR age relay o sing the o els indicat when pow	Contacts. device: ted in the ted ver is turned	chnical sp d on. For	safety r	easons, devices permanently connected to th
WARNING: this symbol ind It is seen near the power su Read the following warnings befor follow instructions precisely when c always use cables that are suitable the device has no ON/OFF switch power supply require a two-phase di	icates dan upply circu re installin onnecting for the vo n: it switch isconnecti	nger. Init and near high-volt ng, connecting or u the device. Itage and current lev nes on immediately ng switch with prope	WAR age relay o sing the o els indicat when pow	Contacts. device: ted in the ted ver is turned	chnical sp d on. For	safety r	
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WARNING: this symbol ind It is seen near the power su Read the following warnings befor follow instructions precisely when c always use cables that are suitable the device has no ON/OFF switch power supply require a two-phase di by the user. A single switch can cont to if the device is connected to elect connection is not made directly throu	icates dan upply circu re installin onnecting for the vo n: it switch isconnecti isconnecti rol severa ctrically N ugh the ma	nger. iit and near high-volt ng, connecting or u the device. Itage and current lev nes on immediately ng switch with proper l units. ON-ISOLATED equ achine structure.	WAR age relay of sing the of els indicat when pow rr marking ipment (e	NINCS contacts. device: ted in the ted rer is turned . Such switc o.g. thermoo	chnical sp d on. For ch must b couples),	safety ro e located a groun	easons, devices permanently connected to th d near the device and must be easily reachabl ding wire must be applied to assure that th
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GEFRAN spa will not be held liable for any injury to persons and/or damage to property deriving from tampering, from any incorrect or erroneous use, or from any use not conforming to the device specifications.