

ICPlus 902

by Schneider Electric





Electronic controller with 1 intervention point

USER INTERFACE



ICPlus 902

	KEYS			
	UP Press and release Scroll menu items Increases values Press for at least 5 sec Function can be configured by the user (H31)	0	STAND-BY (ESC) Press and release Returns to the previous menu level Confirms parameter value Press for at least 5 sec Function can be configured by the user (H33)	
8	DOWN Press and release Scroll menu items Decrease values Press for at least 5 sec Function can be configured by the user (H32)	SET	SET (ENTER) Press and release Displays alarms (if active) Opens Machine Status menu Confirm commands Press for at least 5 sec Opens Programming menu	

		ICO	NS		
•	Decimal Poil Permanently on: Off:			Flashing:	e displays a temperature reduced set active, displays a temperature or no unit of measure selected
Ρ		displays a pressure reduced set active and displays a pressure	Η		displays a humidity reduced set active and displays a humidity
1	,	OUT1 output active a delay, a protection or a locked start-up otherwise	2	Not Used	
	Alarm Permanently on: Flashing: Off:	alarm active alarm acknowledged otherwise	display		levice performs a Lamp Test; the n for several seconds to check that

ELECTRICAL CONNECTIONS

A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power from all equipment including connected devices prior to removing any covers or doors, or
 installing or removing any accessories, hardware, cables, or wires.
- Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- Replace and secure all covers, accessories, hardware, cables and wires.
- For all the devices where this is provided, confirm that a proper ground connection exists before applying power to the unit.
- Use only the specified voltage when operating this device and any associated products.

Failure to follow these instructions will result in death or serious injury.

This device has been designed to operate outside of any hazardous location. Only install this device in zones known to be free of hazardous atmosphere.

\Lambda DANGER

POTENTIAL FOR EXPLOSION

Install and use this equipment in non-hazardous locations only.

Failure to follow these instructions will result in death or serious injury.

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Eliwell for any consequences arising out of the use of this material.

A WARNING

UNINTENDED EQUIPMENT OPERATION

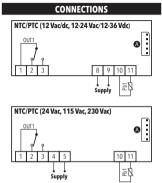
- Use appropriate safety interlocks where personnel and/or equipment hazards exist.
- Install and operate this equipment in an enclosure appropriately rated for its intended environment.
- Power line and output circuits must be wired and fused in compliance with local and national regulatory
 requirements for the rated current and voltage of the particular equipment.
- Do not use this equipment in safety-critical machine functions.
- Do not disassemble, repair, or modify this equipment..
- Do not mount devices in extremely damp and/or dirt-laden areas.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Do not exceed the maximum permissible current; in case of higher loads, use a suitably rated contactor.

NTC/PTC/PT100 probes have no connection polarity and can be extended using a normal bipolar cable (Note that extending the probes burdens the behaviour of the instrument in terms of EMC electromagnetic compatibility: specifically, if PT100 probes with cable longer than 3 mt (118 in.) are used, an extreme care must be taken during wiring operations).

Probe cables, power supply cables and the TTL serial cable should be routed separately from power cables.

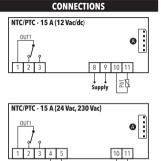


INPUT	INPUT/OUTPUT CHARACTERISTICS				
Display range:	NTC: -50110 °C (-58230 °F) PTC: -50140 °C (-58302 °F) on display with 3½ digits + sign				
Analogue input	1 NTC or 1 PTC (selectable by parameter HOO)				
Serial	TTL for connection to Copy Card or Televis/Modbus remote control systems				
Digital output (OUT1)	EN60730 - 1 relay SPDT 8(4) A - 250 Vac UL60730 - NO: 8 A 240 Vac G.P. ½ HP 240 V NC: 8 A 240 Vac G.P. ½ HP 240 V				
Buzzer output	only on models where this is provided				
Measurement range	-50140 °C (-58284 °F)				
Accuracy	better than 0.5 % of end of scale +1 digit				
Resolution	0.1 °C (0.1 °F up to +199.9 °F; 1 °F over)				

	TERMINALS		
1-2	NC regulator relay OUT1	*4-5	Power supply 24 Vac, 115 Vac and 230 Vac
1-3	NO regulator relay OUT1	*8-9	Power supply 12 Vac/dc and 12-24 Vac/12-36 Vdc
10-11	Probe Pb1 Input		
A	TTL input	* depend	s on model

NTC/PTC MODEL

NTC/PTC MODEL (with 15 A relay)

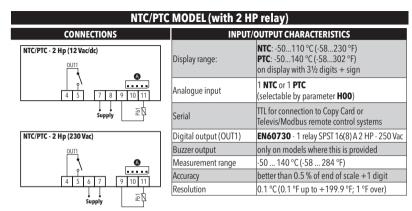


Supply

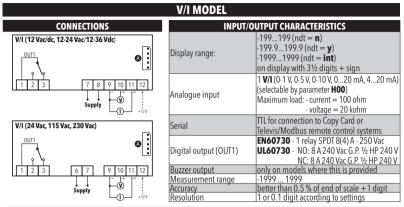
ΞŔ

INPU	INPUT/OUTPUT CHARACTERISTICS				
Display range:	NTC: -50110 °C (-58230 °F) PTC: -50140 °C (-58302 °F) on display with 3½ digits + sign				
Analogue input	1 NTC or 1 PTC (selectable by parameter H00)				
Serial	TTL for connection to Copy Card or Televis/Modbus remote control systems				
Digital output (OUT1)	EN60730 - 1 relay SPDT 15 A - 250 Vac UL60730 - NO: 12.5 A 240 Vac resistive 1 HP 240 V NC: 12.5 A 240 Vac resistive ¾ HP 240 V				
Buzzer output	only on models where this is provided				
Measurement range	-50140 °C (-58284 °F)				
Accuracy	better than 0.5 % of end of scale +1 digit				
Resolution	0.1 °C (0.1 °F up to +199.9 °F; 1 °F over)				

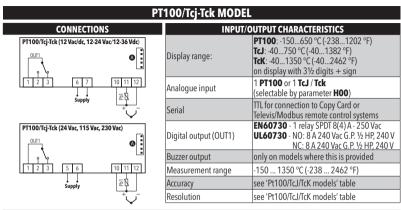
	TERMINALS		
1-2	NC regulator relay OUT1	*4-5	Power supply 24 Vac and 230 Vac
1-3	NO regulator relay OUT1	*8-9	Power supply 12 Vac/dc
10-11	Probe Pb1 Input		
Α	TTL input	* depend	ls on model



	TERMINALS				
4-5	NO regulator relay OUT1	*6-7	Power supply 230 Vac		
9-11	Probe Pb1 Input	*7-8	Power supply 12 Vac/dc		
A	TTL input	* depends on model			



	TERMINALS			
1-2	NO regulator relay OUT1	*7-8	Power supply 12 Vac/dc and 12-24 Vac/12-36 Vdc	
1-3	NC regulator relay OUT1	*9-10-12	Voltage input (9=GND; 10="+"; 12=12 V)	
*6-7	Power supply 24 Vac, 115 Vac and 230 Vac	*9-11-12	Current input (9=GND; 11="+"; 12=12 V)	
Α	TTL input	* depend	s on model	



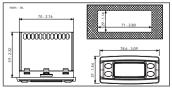
	TERMINALS		
1-2	NO regulator relay OUT1	*6-7	Power supply 12 Vac/dc and 12-24 Vac/12-36 Vdc
1-3	NC regulator relay OUT1	*10-11-12	Probe PT100 input - 3 wires (Pb1)
*5-6	Power supply 24 Vac, 115 Vac and 230 Vac	*11-12	TcJ/TcK input
A	TTL input	* depends	on model

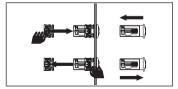
	PT100/Tcj-Tck MODELs				
		0.5 % for whole scale + 1 digit 0.2 % from -150 °C to 300 °C			
	RESOLUTION:	0.1 °C (0.1 °F) from -199.9 °C up to 199.9 °C; 1 °C (1 °F) beyond			
TcJ:	ACCURACY:	0.4 % for whole scale + 1 digit			
163.	RESOLUTION:	0.1 °C (0.1 °F) from -199.9 °C up to 199.9 °C; 1 °C (1 °F) beyond			
Tck: ACCURACY:		0.5 % for whole scale + 1 digit 0.3 % from -40 °C to 800 °C			
	RESOLUTION:	0.1 °C (0,1 °F) from -199.9 °C up to 199.9 °C; 1 °C (1 °F) beyond			

MOUNTING - DIMENSIONS

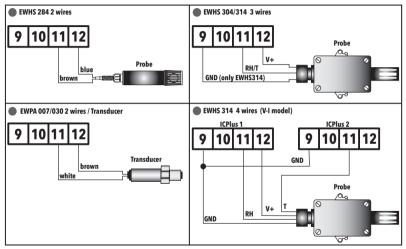
The device is designed for panel mounting. Drill a 71x29 mm (2.80x1.14 in.) hole and insert the instrument; secure it with the special brackets provided. Do not install the instrument in damp and/or dirty places; in fact, it is suitable for use in places with ordinary or normal levels of pollution.

Keep the area around the instrument cooling slots adequately ventilated.





EWPA-EWHS PROBE CONFIGURATION



USING THE COPY CARD/UNICARD

The Copy Card/Unicard is connected to the serial port (TTL) and allows rapid programming of the instrument parameters. Access **Installer** parameters by entering '**PA2**', scroll through the folders using (and () until folder **FPr** appears. Select it using (), scroll through the parameters using () and (), then select the function using () (eg. **UL**).

- Upload (UL): Select UL and press controls function uploads the programming parameters from the instrument to the card. If the procedure is a success, 'y', will appear on the display, otherwise 'n' will appear.
- Format (Fr): This command is used to format the copy card/unicard (recommended when using the card for the first time). NOTE: the Fr parameter deletes all data present. This operation cannot be cancelled.
- Download: Connect the Copy Card/Unicard when the instrument is switched off. At power-on, data is downloaded from the Copy Card/Unicard to the instrument automatically. At the end of the lamp test, the display will show 'dLy' if the operation was successful and 'dLn' if not.

NOTE: After downloading, the instrument works with the settings of the new map just downloaded.

ACCESSING AND USING THE MENUS

The resources are organized into 2 menus which are accessed as follows:

- 'Machine Status' menu: press and release the set key.
- 'Programming' menu: hold down the ser key for 5 seconds.

Either do not press any keys for 15 seconds (timeout) or press the 💿 key once, to confirm the last value displayed and return to the previous screen.

PASSWORD

Password 'PA1': used to access **User** parameters. The password is not enabled by default (**PS1**=0). To enable it (**PS1** \neq 0): press and hold (a) for longer than 5 seconds, scroll through the parameters using (a) and (a) until you see the label **PS1**, press (a) to display the value, modify it using (a) and (b), then save it by pressing (b). If enabled, it will be required in order to access the User parameters.

Password 'PA2': used to access Installer parameters. The password is enabled by default (PS2=15). To modify it (PS2+15): press and hold om for longer than 5 seconds, scroll through the parameters using ⊗ and ⊗ until you see the label PA2, press om set the value to '15' using ⊗ and ⊗, then confirm using om .Scroll through the folders until you find the label dis and press om to enter. Scroll through the parameters using ⊗ and ⊗ until you see the label PS2, press om to display the value, modify it using ⊗ and ⊗, then save it by pressing om om 0.

The visibility of 'PA2' is as follows:

2) Otherwise: The password PA2 is amongst the level1 parameters. If enabled, it will be required when accessing the Installer parameters; to enter it, proceed as instructed for password PA1.

If the value entered is incorrect, the label PA1/PA2 will be displayed again and the procedure will need to be repeated.

MACHINE STATUS MENU

Access the Machine Status menu by pressing \mathfrak{s} and releasing the key. If no alarms are active, the 'SP1' label appears. Use the keys \mathfrak{s} and \mathfrak{s} to scroll through all the folders in the menu:



- AL: alarms folder (only visible if an alarm is active);
- SP1: Setpoint 1 setting folder;
- Pb1: probe 1 Pb1 folder;

Displaying probes: When label Pb1 is present, press the a key to view the value measured by the corresponding probe (NOTE: the value cannot be modified).

PROGRAMMING MENU

To access the 'Programming' menu, press the
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User Parameter: When accessed, the display will show the first parameter (e.g. 'dF1'). Press 🔊 and 笅 to scroll through all the parameters on the current level. Select the desired parameter by pressing 🚥. Press 🔊 and 笅 to modify it and 💷 to save the changes.

Installer Parameter: When accessed, the display will show the first folder (e.g. '**rE1**'). Press (and (b) to scroll through the folders on the current level. Select the desired folder using (b). Press (c) and (c) to scroll through the parameters in the current folder and select the parameter using (c). Press (c) and (c) to modify it and (c) to save the changes.

NOTE: Switch the instrument off and on again each time the parameter configuration is changed

DIAGNOSTICS

Alarms are always indicated by the alarm icon \mathbf{A} and the buzzer.

To switch off the buzzer, press and release any key; the corresponding icon will continue to flash.

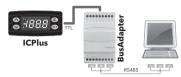
N.B.: If alarm exclusion times have been set, the alarm will not be signalled.

	ALARMS					
Label	Description	Cause	Effects	Remedy		
E1	Probe1 in error (ambient)	• measured values are outside	 Display label E1 Alarm icon permanently on Buzzer activation (if present) Disable max/min alarm controller Compressor operation based on parameters On1 and OF1 	 check probe type (H00) check probe wiring replace probe 		
AH1	Alarm for HIGH value (Probe1)	value read by Pb1 > HA1 after time of tAO .	 Recording of label AH1 in folder AL Alarm icon permanently on Buzzer activation (if present) No effect on regulation 	Wait until value read by Pb1 returns below HA1 .		
AL1	Alarm for LOW value (Probe1)	value read by Pb1 < LA1 after	 Recording of label AL1 in folder AL Alarm icon permanently on Buzzer activation (if present) No effect on regulation 	Wait until value read by Pb1 returns above LA1 .		

TELEVIS SYSTEM

The Televis remote control systems can be connected using the TTL serial port (TTL-RS485 **Bus**Adapter 130 or 150 interface module must be used).

To configure the instrument to do this, you need to access the **Add** folder and use the **dEA** and **FAA** parameters.



NOTE: CHECK THE AVAILABILITY OF MODELS COMPATIBLE WITH REMOTE SUPERVISION SYSTEMS.

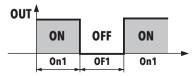
DUTY CYCLE DIAGRAM

The device uses parameters On1 e OF1 set for Duty Cycle.

An error condition in probe1 (regulation) causes one of the following actions:

- Code 'E1' is shown on the display
- The regulator is activated as indicated by parameters On1 and OF1 if set for Duty Cycle

On1	OF1	Regulator output
0	0	OFF
0	>0	OFF
>0	0	ON
>0	>0	Duty Cycle



TECHNICAL DATA (EN 60730-2-9)

Classification: Mounting: Type of action: Pollution class: Insulation material class: Overvoltage category: Rated impulse voltage: Temperature:	operation (not safety) device for incorporation panel mounting with 71x29 mm (2.80x1.14 in.) drilling template 1.B 2 III II 2500 V {UL models: Operating: 055 °C (32131 °F) - Storage: -3085 °C (-22185 °F) Others: Operating: -555 °C (23131 °F) - Storage: -3085 °C (-22185 °F)
Power supply:	 12 Vac/dc (±10 %) 24 Vac (±10 %) 12-24 Vac/12-36 Vdc (±10 %) (Dedicated power supply not grounded or earth connected) 115 Vac (±10 %) 50/60 Hz 230 Vac (±10 %) 50/60 Hz
Consumption:	 1.5 VA max (model 12 Vac/dc) 4 VA max (models: 24 Vac, 12-24 Vac/12-36 Vdc, 115 Vac and 230 Vac)
Fire resistance category: Software class:	D A

NOTE: check the power supply specified on the instrument label.

FURTHER INFORMATION

Input/Output Characteristics

See 'Connections' section

Food Safety:

Mechanical Characteristics

Casing:	PC+ABS UL94 V-0 resin casing, polycarbonate window, thermoplastic resin keys
Dimensions:	front panel 78.6x37 mm (3.09x1.46 in.), depth 59 mm (2.32 in.) (without terminals)
Terminals:	screw/disconnectable terminals for cables with a diameter of 2.5 mm ² (13 AWG)
Connectors:	TTL for connection of Unicard/Copy Card (maximum lenght 3 m / 118 in.)
Humidity:	Operating / Storage: 1090 % RH (non-condensing)
Regulations	

The device complies with standard EN13485 as follows:

- suitable for storage
- application: air
- climate range A
- measurement class 1 in the range -25...15 °C (-13...59 °F) (*)

(* exclusively using Eliwell probes)

NOTE: The technical specifications given in this document regarding measurement (range, accuracy, resolution, etc.) refer to the instrument and not to any accessories provided (for example: probes).

PARAMETERS TABLE

PAR.	DESCRIPTION	MODEL	RANGE	VALUE	M.U.	LEVEL
SP1	Pb1 value control setpoint SP1. The SEtpoint is visible from the machine status menu and not from the programming menu.	NTC/PTC PT100-Tc V/I	LS1HS1	0.0 0.0 0	°C/°F °C/°F num	/
	REGULATOR 1 (folder 'rE1')					
HC1	This sets the controller 1 operating mode. H(0) = Hot; C(1) = Cold.	ALL	H/C	н	flag	Inst
0 51	Value to be added to SP1 if reduced set enabled	NTC/PTC PT100-Tc	-30.030.0	0.0	°C/°F °C/°F	Inst
dF1	Regulator 1 activation differential. The utility stops on reaching the SP1 value (as indicated by control probe) and restarts at value equal to T=SP1+dF1 relative to HC1.	V/I NTC/PTC PT100-Tc V/I	-3030 0.030.0 0.030.0 030	0 1.0 1.0 1	num °C/°F °C/°F num	User/Inst
HS1	Maximum value assignable to setpoint SP1.	NTC/PTC PT100-Tc V/I	LS1HdL	140.0 1350 199	°C/°F °C/°F num	User/Inst
LS1	Minimum value assignable to setpoint SP1.	NTC/PTC PT100-Tc V/I	LdLHS1	-50.0 -199.9 -199	°C/°F °C/°F num	User/Inst
HA1	Pb1 maximum value alarm on Regulator 1.	NTC/PTC PT100-Tc V/I	LA1150.0 LA11999 LA1150	140.0 1350 150	°C/°F °C/°F num	Inst
LA1	Pb1 minimum value alarm on Regulator 1.	NTC/PTC PT100-Tc V/I	-150.0HA1 -328HA1 -150HA1	-50.0 -199.9 -150	°C/°F °C/°F num	Inst
dn1	Switch-on delay. The indicated time must elapse between the request for activation of the controller 1 relay and switch-on. $0 = \text{not}$ active.	ALL	0250	0	S	Inst

PAR.	DESCRIPTION	MODEL	RANGE	VALUE	M.U.	LEVEL
d01	Delay time after switching off. The indicated time must elapse between deactivation of the controller 1 relay and the next switch-on. 0 = not active.	ALL	0250	0	min	Inst
di1	Delay between switch-ons. The indicated time must elapse between two consecutive switch-ons of regulator 1. 0 = not active.	ALL	0250	0	min	Inst
dE1	Switch-off delay. The indicated time must elapse between the request for deactivation of the controller 1 relay and switch-off. 0 = not active.	ALL	0250	0	s	Inst
On1	Controller 1 switch-on time in the event of faulty probe. if On1 =1 and OF1 =0, the controller remains on; if On1 =1 and OF1 >0, the controller operates in Duty Cycle mode.	ALL	0250	0	min	Inst
OF1	Controller 1 switch-off time in the event of faulty probe. if OF1 =1 and On1 =0, the controller remains off; if OF1 =1 and On1 >0, the controller operates in Duty Cycle mode.	ALL	0250	1	min	Inst
	ALARMs (folder 'AL')					
AFd	Alarm differential.	NTC/PTC PT100-Tc V/I	1.050.0 1.050.0 150	2.0 2.0 2	°C/°F °C/°F num	Inst
tP	Enable all keys to acknowledge an alarm. $\mathbf{n}(0) = \mathbf{n}_0$; $\mathbf{y}(1) = \mathbf{y}_0$.	ALL	n/y	у	flag	Inst
	COMMUNICATION (folder 'Add')					
PtS	Selection of communication protocol. t = Televis; d = Modbus.	ALL	t/d	t	flag	Inst
dEA	Index of the device within the family (valid values from 0 to 14).	ALL	014	0	num	Inst
FAA	Device family (valid values from 0 to 14).	ALL	014	0	num	Inst
Adr	Modbus protocol controller address.	ALL	1255	1	num	Inst
bAU	Baudrate selection. 48 (0) = 4800; 96 (1) = 9600; 192 (2) = 19200; 384 (3) = 38400.	ALL	48/96/ 192/384	96	num	Inst
Pty	Modbus parity bit. $\mathbf{n}(0) = \text{none}; \mathbf{E}(1) = \text{even}; \mathbf{o}(2) = \text{odd}.$	ALL	n/E/o	E	num	Inst
StP	Modbus stop bit. 1b $(0) = 1$ bit; 2b $(1) = 2$ bit.	ALL	1b/2b	1b	flag	Inst

PAR.	DESCRIPTION	MODEL	RANGE	VALUE	M.U.	LEVEL
	DISPLAY (folder 'diS')					
LOC	LOCk. Setpoint edit lock. The parameter programming menu can still be accessed, and the settings changed, which means also that the status of this parameter can be changed so as to unlock the keypad. \mathbf{n} (0)= no; \mathbf{y} (1) = yes.	ALL	n/y	n	flag	User/Inst
PS1	Password 1. When enabled (PS1 ≠ 0) it is the password to the ' User ' parameters (User).	ALL	0250	0	num	User/Inst
PS2	Password 2. When enabled (PS2 \neq 0) it is the password to the ' Installer ' parameters (Inst).	ALL	0250	15	num	Inst
ndt	Display values with decimal point. \mathbf{n} (0) = no (without decimal point); \mathbf{y} (1) = yes (with decimal point); int (2) = integer (V/I models only).	ALL	n/y/int	n	num	User/Inst
CA1	Calibration 1. Positive or negative value added to the value read by Pb1 , according to the setting of parameter CAI .	NTC/PTC PT100-Tc V/I	-30.030.0 -30.030.0 -3030	0.0 0.0 0	°C/°F °C/°F num	User/Inst
CAI	Intervention of the offset on display, temperature control or both. 0 = only the value shown is modified; 1 = sum with only the value used by the controllers and not for the display, which remains unchanged; 2 = sum with the displayed value, which is also used by the regulators.	ALL	0/1/2	2	num	Inst
LdL	Minimum value that can be displayed by the device.	NTC/PTC PT100-Tc V/I	-199.9HdL -328HdL -199HdL	-50.0 -199.9 -199	°C/°F °C/°F num	Inst
HdL	Maximum value that can be displayed by the device.	NTC/PTC PT100-Tc V/I	LdL199.9 LdL1350 LdL199	140.0 1350 199	°C/°F °C/°F num	Inst
dro	Select the unit of measurement of probe 1. • NTC/PTC and PT100-Tc: C (0) = °C, F (1) = °F	NTC/PTC PT100-Tc	C/F C/F	C C	flag flag	Inst
	 V/I: n (0) = no unit of measure selected, t(1) = temperature, P (2) = pressure, H (3) = humidity 	V/I	n/t/P/H	n	num	

PAR.	DESCRIPTION	MODEL	RANGE	VALUE	M.U.	LEVEL	
	CONFIGURATION (folder 'CnF') >>>> If one or more parameters are changed, the	e controller ML	IST be switched	off and swit	ched on a	again.	
	Probe type selection. • NTC/PTC: Ptc (0) = PTC, ntC (1) = NTC		Ptc/ntC	ntc	flag		
			Jtc/Htc/Pt1	Jtc	num	11	
H00	 PT100-Tc: Jtc(0) = TcJ, Htc(1) = Tck, Pt1 (2) = PT100. V/I: 420 (0) = 420mA, 020 (1) = 020mA, t10 (2) = 010V, t05 (3) = 05V, t01 (4) = 01V. 	V/I	420/020 t10/t05/t01	420	num	User/Inst	
H02	Press the ESC, UP and DOWN keys (if configured for a second function) for the time HO2 to activate the function itself.	ALL	015	5	s	Inst	
	Lower input current/voltage limit.	NTC/PTC					
H03	(only present on model V/I)	PT100-Tc V/I	-19991999	0	num	User/Inst	
	llan an anna hIraltana liaritafan ina at	NTC/PTC	-17771777		num		
H04	Upper current/voltage limit for input. (only present on model V/I)					User/Inst	
		V/I	-19991999	1000	num		
H05	Window filter: -2 = very fast; -1 = fast; 0 = normal; 1 = slow; 2 = very slow.	ALL	-2/-1/0/1/2	0	num	Inst	
H08	Stand-by operating mode. 0 = only display switches off; 1 = display on and controllers locked; 2 = display off and controllers locked.	ALL	0/1/2	2	num	Inst	
H10	Delay for output activation after Power On. If $H10 = 0$ the delay is NOT active; if $H10 \neq 0$ the output will not be activated before this time has expired.	ALL	0250	0	min	Inst	
H31	Configuration of UP key. 0 = disabled; 1 = not used; 2 = Offset setpoint; 3 = OUT1 stopped; 4 = not used; 5 = not used; 6 = Stand-by; 7 = not used.	ALL	07	0	num	Inst	
H32	Configuration of DOWN key. Same as H31.	ALL	07	0	num	Inst	
H33	Configuration of ESC key. Same as H31.	ALL	07	6	num	Inst	

PAR.	DESCRIPTION			MODE	LR	ANGE	VALUE	M.U.	LEVEL
rEL	firmware version. Device	rsion. Device software release: read-only parameter.		ALL		/	/	/	User/Inst
tAb	Parameters table. Reserv	ble. Reserved: read-only parameter.		ALL		/	/	/	User
	COPY CARD (folder 'FPr')								
UL	Upload. Transfer of progr	amming parameters from instrur	ment to Copy Card.	ALL		/	/	/	Inst
dL	Download. Transfer of pro	ogramming parameters from Cop	by Card to instrument.	ALL		/	/	/	Inst
Fr	Format. Cancels all data entered in the Copy Card. Note: If parameter Fr (Copy Card formatting) is used, the data entered in the card will be permanently lost. This operation cannot be reversed. FUNCIIONS (folder 'fnc')		ALL		/	1	/	Inst	
Functi		Function label ACTIVE	Function label NO	ACTIVE	D.I.	KEY	Alarm sig	naling	
Reduc	ed setpoint	OSP	SP		2	2	ON Icon		
Stand-by On OF		OF		6	6	ON Icon			
Alarm	Alarm acknowledgement tAL tAL		tAL		7	7	ON Icon		
NOTES: - to modify the status of a given function, press the 'set' key - If the instrument is switched off, the function labels will return to the default status									

LIABILITY AND RESIDUAL RISKS

ELIWELL CONTROLS SRL declines any liability for damage due to:

- installation/uses different from those specified and, in particular, not complying with the safety regulations and/or instructions given in this document;
- use on panels that do not provide adequate protection against electric shocks, water or dust when assembled;
- use on panels allowing access to dangerous parts without the use of tools;
- tampering with and/or modifying the product;
- installation/use on panels not complying with current standards and regulations.

DISCLAIMER

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Every care has been taken in preparing this document; nevertheless ELIWELL CONTROLS SRL cannot accept liability for any damage resulting from its use. The same applies to any person or company involved in preparing and editing this document. ELIWELL CONTROLS SRL reserves the right to make aesthetic or functional changes at any time without notice.

CONDITIONS OF USE

Permitted use

For safety reasons, the instrument must be installed and used according to the instructions supplied and, in particular, parts under dangerous voltages must not be accessible in normal conditions.

The device must be adequately protected from water and dust with regard to its application, and must only be accessible using tools (except for the front panel). The device is suitable for use in household refrigeration appliances and/or similar equipment and has been tested for safety aspects in accordance with the harmonised European reference standards.

Improper use

Any use other than that expressly permitted is prohibited. The relay contacts provided are of a functional type and subject to failure: any protection devices required by product standards, or suggested by common sense for obvious safety requirements, must be installed externally to the instrument.

DISPOSAL



The appliance (or the product) must be disposed of separately in compliance with the local standards in force on waste disposal.



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