cod. 9IS23029 rel. 7/06 -GB-**IWP 750-760 (LX)** electronic controllers for "forced air" refrigeration units

The device consists of two units: • an IWK keyboard, available in 3 formats (see paragraph Models); • an IWP power module.

USER INTERFACE

(example of a standard 6-key openboard).

The user has a keyboard featuring a display and four primary + two secondary keys for controlling status and programming of the instrument.

KEYS AND MENUS "primary" keys



entries

Increases values Can be set by parameter* (see H31 parameter: by default activates manual DEFROST) in WIDE keyboard UP & "def" keys are separate

DOWN Key Scrolls menu

Can be set by parameter* (see H32 parameter)

Decreases values

Scrolls menu entries

 \ge



ESC function (exit) Can be set by parameter* (see H33 parameter) ****Activates the functions** (see paragraph entitled OSP keyboard FUNCTIONS FOLDER) in WIDE keyboard ESC key have the "def" symbol"

set key (press once)



(press for 2 seconds)

Keyboard locking/unlocking

"secondary" keys or function keys

"ON-OFF" KEY



(hold down, see par. H02) (function 2) Turns the instrument On/Off Can be set by parameter*

(see H35 parameter)

"LIGHT" Key



(function 1) Turns on the light Can be set by parameter* (see H34 parameter)



"UP/Def." key see par. H31

"DOWN" Key see par. H32

"on-off" key (function 2) see par. H35

*NOTE:

a) The "primary" keys can be set using

parameters H31...H33 (see). In the standard configuration, the keys are set by default as follows:

• "UP" key; par. H31=1; activates manual defrosting

"DOWN" key; par. H32=0 no associated function (disabled)

- "esc" key; par. H33=3 activates the reduced set function
- "set" key; cannot be set.

a) The "secondary" keys or "function keys" can be set using parameters H34...H35 (see). In the standard configuration, the keys are set by default as follows:

• "UP" key; par. H34=6; activates the light

"DOWN" key; par. H35=7 activates the "ON-OFF" function (also known as STAND-BY).

LED

"Display" LEDs

The display is red in color; the display LEDs (from left to right) are green (3) and red (Alarm LED).

Compressor LED (green)

•ON for compressor on;

•blinking in case of delay, protection, or

blocked enabling

Defrosting LED (green)



·blinking for manual or digital input activation



Fan LED (green)

- •ON when fan is on; B
 - •blinking for manual fan forcing or D.I.
 - (Digital Input)* activation *(%RH function, humidity reduction if par. H11=13)

Alarm LED (red)



"Key" LEDs

3 LEDs are associated with the 3 set, "on-off" and "LIGHT" keys of the sample keyboard.

"set" LED (yellow)

ON for programming level 2 parameters; blinking when reduced set is on OSP set

"on-off" LED (yellow)



•ON for instrument "turned off" (on STAND-BY):

•OFF for instrument turned on;

"light" LED (green)



ON for open output also from D.I. NOTE: the LEDs are turned off ("OFF") in all other

cases not described

PLEASE NOTE - WIDE & 32X74 **KEYBOARDS: ALL LEDS ARE RED**



IWK KEYBOARD LOCKING • IWK "OPEN"

The instrument includes a facility for disabling the IWK keyboard, by:

• key:

•keyboard **IWK OPEN**: UP Key+esc Key pressed simultaneously <u>for 2 seconds</u> lock/unlock the keyboard •keyboard **IWK wide/32x74**: UP Key+DOWN Key pressed simultaneously <u>for 2 seconds</u> lock/unlock the keyboard NOTE: To indicate the keyboard has been locked, the Lock LED



• programming the "LOC" parameter (see folder with "diS" label).

NOTE: If the keyboard is locked you can access the "Programming" Menu by pressing the "set" key. The Setpoint can also be viewed.

ENABLING DEFROST CYCLE MANUALLY

To manually activate the defrosting cycle, press the "UP/Def" key (if configured =1) for H02 seconds.

If the conditions for defrosting are not present, (for example, the evaporator probe temperature is higher than the defrost end temperature), or if parameter OdO <> 0, the display will blink three (3) times, to indicate that the operation will not be performed.

ACCESSING AND USING MENUS

The instrument has two main menus: the "Machine Status" and "Programming" menu.

Resources are arranged in a menu, which can be accessed:

• by pressing and quickly releasing the "set" key ("Machine Status" menu) or

- by pressing the "set" key for more than
- 5 seconds ("Programming" menu) or

• by pressing the "UP" and "DOWN" keys simultaneously for more than 3 seconds ("Local keyboard Programming" menu) To access the contents of each folder, indicated by the relevant label, just press the "set" key once. You can now scroll through the contents of each folder, modify it or use its functions. If you do not use the keyboard for over 15 seconds (time-out) or if you press the "fnc" key once, the last value shown on the display is confirmed and you return to the previous screen mask.

FUNCTIONS FOLDER FnC Within the FnC folder (last folder visible from the Programming Menu, level 1), the following functions are available, which can be activated using the "set" key: If the instrument is switched off, the functions labels will go back to their default status.

MACHINE STATUS MENU

(See Machine Status Menu Diagram)

To access the "Machine Status" menu, press and quickly release the "set" key. If alarms are not present, the label "SEt" appears. By using the "UP" and "DOWN" keys you can scroll through the other folders in the menu:

-AL: alarm folder (if alarms present, except for faulty probes/probe errors;

-SEt: Setpoint setting folder.

-rtc: real time clock folder. -Pb1: probe 1 value folder;

-Pb2: probe 2 value folder;

-Pb3: probe 3 value folder (if present);



PASSWORD 1) PROGRAMMING MENU

The passwords "PA1" and "PA2" allow access respectively to level 1 and level 2 parameters. In the standard configuration passwords are not present. To enable and assign them (value \neq 0) the desired value, access the "Programming" menu, within the folder with the "diS" label. If passwords are enabled, they will be requested:

- PA1 at the entrance of the

"Programming" menu (see the

"Programming Menu" section);

- PA2 within the folder with the "Cnf" label containing level 1 parameters. **2) LOCAL KEYBOARD**

password "PA3" allows access to the local keyboard parameters. There is no password in the standard configuration. To enable and assign them (value<>0) the desired value, access the "Local Keyboard Programming" menu, within the folder with the "PLO" label. If a password is enabled, it will be requested:

- PA3 at the entrance of the "PLO" menu

USING THE COPY CARD

The Copy Card is an accessory connected to the TTL serial port which allows for the quick programming of the instrument parameters (upload and download parameter's map). The operation is performed as follows:

Format

This command allows copy card formatting, an operation **necessary** in the event of first instrument use or to copy maps with different models.

WARNING: after the copy card has been programmed, all the data entered is erased by using the "Fr" parameter. This operation cannot be cancelled. **Upload**

This operation loads the programming parameters from the instrument.

Download

This operation downloads to the instrument the programming parameters.

PROGRAMMING MENU (See Programming Menu Diagram) <u>1) Level 1 Parameters</u>

To access the "Programming" menu, press the "set" key for more than 5 seconds. If specified, the level 1 access PASSWORD will be requested (see parameter "PA1") and (if the password is correct) the label of the first folder will follow. If the password is wrong, the display will show the PA1 label again. To scroll other folders, use the "UP" and "DOWN" keys; the folders contain only the level 1 parameters.

NOTE: at this point level 2 parameters are NOT visible, even if they aren't protected by password.

2) Level 2 Parameters

In the Programming Menu go into the "CnF" folder, scroll all the parameter until you reach the PA2 label. By pressing and releasing the "set" button you will enter all level 2 parameters only and the label of the first folder in the programming menu will follow.

The level 2 parameters may be protected by a second password (see "PA2" parameter inside "diS" folder, not to be confused with PA2 label inside "CnF" folder). If specified, level 2 parameters are hidden from the user; accessing the "CnF" folder the level 2 access PASSWORD will be requested and (if the correct password is entered) the label of the first folder in the programming menu will follow. **NOTE: At this point you will see only level 2 parameters.** Level 1 parameters will therefore NOT be visible; to reach them you must exit the Programming Menu and repeat step 1).

To enter the folder, press "set". The label of the first visible parameter appears. To scroll through the other parameters, use the "UP" and "DOWN" keys; to change the parameter, press and release "set", then set the desired value using the "UP" and "DOWN" keys, and confirm with the "set" key. Move to the next parameter.

3) "easy map" programming of the base

Within the folder CnF, a level 2, the parameter H60 can be viewed (called "Parameter map selector" or "Vector Number") which allows for the programming (from 1 to 6) of a subset of parameters depending on the type of system required. This will obtain a list of "generic" parameters and a list of "characteristic" parameters of the system. Depending on the value of H60, a "vector" of characteristic parameters is assigned, which can however be changed by the use, just like the other parameters.

It is always possible to reprogram the controller with other "characteristic" parameters, by modifying the "vector".

NOTE: It is strongly recommended that the instrument be switched off and back on again every time parameters have been changed to prevent malfunctioning on configuration and/or ongoing timings.

LOCAL KEYBOARD PROGRAMMING MENU

To enter the "Local Keyboard Programming" menu, press the "UP" and "DOWN" keys simultaneously for at least 3 seconds.

If specified, the access PASSWORD will be requested (see parameter "PA3") and (if the password is correct) the label

PLO (Local Parameters) that represents the folder of local keyboard parameters (see Local Keyboard

Parameter table) will follow. If the password is wrong, the display will show the PA3 label again.

NOTE: the folder may NOT be visible; in this case, you CANNOT enter the local keyboard programming)

To enter the folder, press "set". The label of the first visible parameter appears. To scroll through the other parameters, use the "UP" and "DOWN" keys; to change the parameter, press and release "set", then set the desired value using the "UP" and "DOWN" keys, and confirm with the "set" key. Move to the next parameter.



NOTE:

UPLOAD: instrument —> Copy Card DOWNLOAD: Copy Card —> instrument.

The operations are performed accessing the folder identified by the "FPr" label and selecting, according to the case, "UL", "dL" or "Fr" commands; the operation is confirmed by pressing the "set" key. If the operation is successful, a "y" is displayed, on the contrary, if it fails an "n" will be displayed.

Download "from reset"

<u>Connect the copy card with the instrument</u> <u>OFF.</u> When the instrument is switched on the programming parameters will be downloaded into the instrument; after the lamp-test the display will show for about 5 seconds:

• label dLY if copy operation successful

label DLn if not

NOTE:

• after the download operation the instrument will immediately work with the new parameters map setting.

DISTANCE-MANAGED SYSTEMS (ONLY LX MODELS)

The connection to the TElevis distancemanaged systems may occur:

•using a TTL serial port (see connection diagram, TTL serial)

In this case, it is necessary to use a TTL- RS 485 BUS ADAPTER 130 interface module.

•using an RS 485 serial (see base terminals 1-2-3 connection diagram) In this case, it is necessary to use the plug-in Televis module available as an optional (TTL - RS 485 converter). To configure the instrument for this purpose you need to access to the folder (only present in LX models) identified by the "Add" label and to use the "dEA" and "FAA" parameters.

MECHANICAL ASSEMBLY

The instrument is designed: • IWK keyboard:

32x74 (4 buttons) IWK key board: panel mounted. Drill a 29x71 mm hole, insert the unit and fix it in place using the brackets supplied.
IWK wide keyboard: panel mounted. Drill a 150x31 mm hole , insert the unit and fix it on the front using the special screws supplied.
IWK "open" (6 buttons): open

• IWK "open" (6 buttons): open board

• IWP power module, open board 92x121mm for open installation. Do not mount the instrument in humid and/or dirty places; it is suitable for use in ordinary polluted places. Always make sure that the area next to the cooling openings of the instrument is adequately ventilated.

ELECTRICAL CONNECTIONS

Warning! Never work on electrical connections when the machine is switched on.

The instrument is fitted with:

• **IWP power base**: FASTON connectors and screw connectors for connection of electrical cables with a diameter of 2.5 mm² (one conductor only per terminal for power connections): for the capacity of the terminals, see the label on the instrument.

• **IWK keyboard:** screw connectors for connection of electrical cables with a diameter of 2.5 mm² (one conductor only per terminal for power connections): for the capacity of the terminals, see the label on the instrument.

The relay contacts are voltage free. Do not exceed the maximum current allowed; in case of higher loads, use an appropriate contactor.

Make sure that power supply voltage meets the instrument voltage. Probes have no connection polarity and can be extended using a regular bipolar cable (note that the extension of the probes affects the EMC electromagnetic compatibility of the instrument: pay extreme attention to the wiring).

Probe cables, power supply cables and the TTL serial cables should be distant from power cables.

IWP 750-760 (LX) BASE TECHNICAL DATA

Container: open board. Dimensions:

• IWP 760 (LX) model: 108x168 mm.

• IWP 750 (LX) model: 108x160 mm. Mounting: can be adapted to containers featuring dimensions which observe DIN standards (assembled on DIN guide)

Usage temperature: -5...55 °C.

Storage temperature: -30...85 °C. Usage environment humidity: 10...90 % RH

(non-condensing). Storage environment humidity: 10...90% RH (non-condensing).

View range: -50...110 (NTC); -55...140 (PTC) °C without decimal point (set by parameter), on a 3 digits display and a plus sign. Analog inputs: three PTC or NTC inputs (set by parameter H00).

Digital inputs: 4 voltage-free digital inputs that can be set by parameter.

Serial Outputs (see also table of Serial Outputs):

TTL Serial Outputs (standard 5-way connectors):

- TTL for Copy Card connection.
- TTL input for connection to the Televis

system (ONLY LX MODELS).

Note: In this case, it is necessary to use a TTL- RS 485 BUS ADAPTER 130 interface module.

<u>485 Serial Output for connection to the</u> Televis**System (ONLY LX MODELS)**:

• 485 Serial for connection to the Televis **System**.

Note: In this case, it is necessary to use an optional plug-in module.

Serial Outputs for keyboard-base connection:

 "Powered" serial connection (also referred to as SHORT DISTANCE) using the lines +12V (only for keyboard-base connection), GND and DATA for: a) simple connection between base and keyboard*;
 b) multiple connection between several modules in the network (up to a max. of 5 modules)**

Note: 1) the modules can be bases or keyboards.

2) the distance between two contiguous modules must be less than 10 m while the distance between the two furthest modules should be less than 50 m.

• "Link" serial connection (also referred to as LONG DISTANCE) using the lines GND (optional for multiple connection), + and - for:

a) simple connection between base and keyboard*

b) multiple connection between several modules in the network (up to a max. of 10 modules)**

NOTE:

1) the modules can be bases or keyboards;

2) *in this case, an optional plug-in module (vertical) and an optional plugin module (90°) is necessary for the keyboard.

3)**in this case, optional vertical plugin modules and optional (90°) plug-in modules are necessary, where: n= no. of bases; Warning! $n \le 5$; m= no. of keyboards. Warning! $m \le 5$;

(See network example).

4) the distance between one module and the next must be less than 10 m in a simple connection; whereas the distance between one module and the next must be less than 2,000 m for a network connection.

- Digital outputs:
- IWP 760 model: 6 outputs on relay
- IWP 750 model: 5 outputs on relay configurable:

ALL MODELS

first output (A) 20A SPST 2 Hp 250V~;
(alternatively 16 A SPST 1 Hp 250V~);
second output (B) 16 A SPDT 1 Hp

250V~;

 third output SPST (C) 20A SPST 2 Hp 250V~; (alternatively 8(3)A SPST 1/2 Hp 250V~);

• fourth output (C) 8(3)A SPST 1/2 Hp 250V~;

fifth output (E) 16 A SPDT 1 Hp 250V~;
 (ONLY IWP 760 MODEL)

 sixth output (F) 8(3)A SPST 1/2 Hp 250V~;

Measurement range: from -55 to 140 °C. Accuracy: better by 0.5% than the end of scale +1 digit. Resolution: 1 or 0.1 °C. Consumption: 8 VA. Power supply: 230 V~/ $= \pm 10\%$ 50/60 Hz

Attention: check the power supply indicated on the label of the instrument; for any information about the relay current carrying capacity and the power supply, contact the trade office.

IWK KEYBOARD TECHNICAL DATA

Front protection: IP65.

Container: see Models table

Dimensions: **see Models table** Usage temperature: -5...55 °C.

Storage temperature: -30...85 °C.

Usage environment humidity: 10...90 % RH (non-condensing).

Storage environment humidity: 10...90% RH (non-condensing).

View range: 50...110 (NTC); -55...140 (PTC) °C without decimal point (set by parameter), on a 3 digits display and a plus sign. Measurement range: from -50 to 140 °C. Accuracy: better by 0.5% than the end of scale +1 digit.

Resolution: 1 or 0.1 °C.

Serial terminals: see IWP760 Technical data

Consumption: **see IWP760 Technical data** Power supply: from the IWP power module.

NOTE: The technical specifications included in this document, concerning the measurement (range, accuracy, resolution, etc.) refer to the instrument in the strict sense, and not to any accessories provided, such as the probes. This means, for example, that the error introduced by the probe is in addition to any errors on the part of the instrument itself.

MODELS

| Model | Characteristics |
|------------------|---------------------------|
| IWK keyboard | |
| IWK std 6 keys | open board keyboard |
| | 68x124mm (Lxh) |
| IWK 32x74 4 keys | keyboard std Eliwell |
| - | 32x74x30mm (LxhxD) |
| IWK wide | "IWC"style keyboard |
| 6 (max 8) keys | 180x37x45mm (LxhxD) |
| IWP power modul | e |
| IWP 750 (LX) | base module with 5 relays |
| | f.to 108x160mm (Lxh) |
| IWP 760 (LX) | base module with 6 relays |
| | f.to 108x168mm (Lxh) |

ALARMS

Table of alarms

| DISPLAY | ALARM |
|----------------------------|--|
| AH1 | High temperature alarm (referred to the thermostat probe or probe 1) |
| AL1 | Low temperature alarm (referred to thermostat probe or probe 1) |
| AH3 | High temperature alarm (referred to probe 3) |
| AL3 | Low temperature alarm (referred to probe 3) |
| Ad2 | Defrost end due to time-out |
| EA | External alarm |
| Opd | Open door alarm |
| E7 | Master-Slave communication failed |
| E10 | Clock battery alarm |
| PA | Generic pressure switch alarm |
| LPA | Minimum pressure switch alarm |
| HPA | Maximum pressure switch alarm |
| To silence LED will bli | the alarm, press any key. In this case the ink. |

ADVANCED FUNCTIONS

%RH FUNCTION

Probe faults table

DISPLAY

E1

E2

F3

FAULT

alternately, every 2 seconds

Faulty probe 1 (thermostat) Faulty

probe 2 (evaporator)

If simultaneous, they will be shown on the display

In the event of E1 or E2 on the Master, (see

LINK Network) if the viewing is deployed, the slaves will always view the Master display: to

understand which unit is in alarm mode, refer

to the alarm LED of each instrument.

Faulty probe 3 (display)

Press the key configured as %RH to enable the %RH function (enabling the humidity reduction control). if the parameter H31-32-34=9 has been set.

The %RH function can also be enabled by D.I. if par. H11=13.

Table of IWP Serial Outputs (see also keyboard connections)

In the event that this control is enabled, the fans operate continuously (always on). During defrosting the fans are controlled according to the defrosting parameters, in particular during the dripping cycle, they will be turned off even if RH% is enabled. **NOTE: RH% status takes priority over any other parameter.**

In the event of a power failure or when the machine has been turned off, the RH% status will be restored as soon as the mains power supply returns/the machine is turned on.

| | | (on the IWK keyboard) |
|--|---|--|
| Single Base-Keyboard connection | GND, DATA, VDD | 90° plug-in module |
| Single Base-Keyboard connection Multiple Base-Keyboard | VDD, GND, +, - | 90° plug-in module (open keyboard) from semi-finished hardware for wide & |
| | ingle ase-Keyboard connection ingle ase-Keyboard connection Iultiple Base-Keyboard onnection (see below) | ingle GND, DATA, ase-Keyboard connection VDD ingle VDD, GND, ase-Keyboard connection +, - fultiple Base-Keyboard ponnection (see below) |

Table of IWP Serial Outputs (see also network connections)

| Туре | Usage | Lines | Accessories (on IWP base) |
|-----------------------------------|--------------------------------------|-------------------------------|------------------------------|
| TTL | Copy Card | TTL | - |
| | Connection to Televis | TTL | BUS ADAPTER 130 |
| Powered serial connection | Single Base-Keyboard con- nection | GND, DATA, 12V | - |
| (SHORT DISTANCE) | Multiple Base-Keyboard connection | GND, DATA 12V not connect. | - |
| Optic insulated serial connection | Single Base-Keyboard con- nection | VDD, GND, +, - | plug-in module |
| (LONG DISTANCE) | Multiple Base-Keyboard connection | VDD, +, - GND optional | plug-in module |

 $\ast\ast$ NOTE: At level 1 the folders will show only level 1 parameters. At level 2 the folders will show only level 2 parameters.

| Alternative List. Jobs TC/F The Steppint can be viewed from the machine statume out and not from the gramming mont. The range is determined by auronative US and US. MARCE DEFENSION VALUE* LEVEX** UAM COMPERSION CONCIDE. (Code and the CPC back) MARCE DEFENSION LEVEX** UAM differential. The composed togo or rescuing to Seguent value (an included by the seguent registry togo or rescuing to Seguent value (an included by the seguent registry togo or rescuing togo are seguent togo or rescuing togo or rescuing togo are seguent togo or rescuing togo or resc | SET | DESCRIPTION | RANGE | DFFAULT* | | | U.M. |
|--|-------------|--|-----------------|----------|--------|---------|---------------|
| Bit Structure CALLING Vov C V Parameter gramming means. The rage is colored by parameters but of MS. EARLING Vov C V Parameter gramming means. The rage is colored by parameters but of MS. EARLING EARLING VALUE* LFML:* UAL Parameter is the rank of a temporator sube carent is early and the constraint of the factorial by the dight of the mount of the factorial by the dis factorial by the dight o | <u>3E1</u> | Setaoint | | 0.0 | | | •C/•E |
| Departure part of the compared by parameters 1.5 and 16.6. AAAGC DEFAULT VALUE* LUPEL** U.M. df COMPRESSION CONTROL (defwelt with the period by the adjameter parameter setup and the setup of the | SEL | The SEtpoint can be viewed from the machine status menu and not from the pro- | -LJE11JE | 0.0 | | | C/ F |
| Description Contremestion Contremest | DAD | gramming menu. The range is determined by parameters LSE and HSE. | | | | | |
| aid Operating to the second state of the secon | PAK. | COMPRESSOR CONTROL (folder with "CP" lobal) | RANGE | DEFAULT | VALUE* | LEVEL** | U.M. |
| unit automation bit of the second of the se | diF | diFferential. The compressor stops on reaching the Setpoint value (as indicated by the | 0.1 30.0 | 2.0 | | 1 | °C/°F |
| using of the differential Nate: the value 0 across be assumed. 152.35 56.0 1 CPTF 156 Higher CS, Halmmun pacifies regions value. 452.1161 562.1161 562.3 1 CPTF MOTE: The two acts are interdependent. HSE (maximum etc) and two sets are interdependent. 0.250 0 2 min Continue compressor (concressor activation time before any possible dis- dise (for the concressor to sets are interdependent). At a specifies in the two two sets are interdependent in the two of the 0.10 operates in duty out the concressor to sets are interdependent in the two of the 0.10 operates in duty out two two sets are interdependent in the two of the 0.10 operates in duty out two two sets are interdependent in the two of the concressor target with of the 0.10 operates in duty out two other activation in the two others and the concressor target with on the 1.00 operates in duty out two others are interdependent in two others are interdependent in the two others are interdependent in duty out two others are interdependent in two others are interdependent in duty out the concressor target with two others are interdependent in duty are | un | adjustment probe), and restarts at a temperature value equal to the Setpoint plus the | 0.150.0 | 2.0 | | | 0/1 |
| Hold Fighter 52. Maximum possible segurit of value. 423.00 50.1 1 VTF General Control Cont | | value of the differential. Note: the value 0 cannot be assumed. | | | | | |
| Higher Still, Maximum processes report value. 152, 103 800 1 CPF MODE: The work as a periodized processes. 300, 300 0 2 CPF GO Construction: Temporative analysis to the setting algebraicity to the setting in the care in the setting and care versa. 300, 300 0 2 CPF GO Construction: Temporative analysis to the setting algebraicity to the setting in the care in the setting in the setting and care versa. 300, 300 0 2 CPF GO Construction: The setting in t | | | | | | | |
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| Lists minimum set) and vice versa. 300300 0 2 VC/F GP Offer Set/Print Temperature sublish for this purpose 300300 0 2 VC/F GP Offer Set/Print Compare Temperature sublish for this purpose 0200 0 2 min GP Offer Set/Print Compare Temperature sublish for this purpose 0200 0 2 min GP Offer Set/Print Compare Temperature sublish for this purpose 0200 0 1 min GP Offer Set/Print Compares and sublish for this purpose 0200 0 1 min GP Offer Set/Print Compares and sublish for this purpose 0200 0 1 min GP Offer Set/Print Compares and sublish for this purpose 0200 0 1 min GP Offer Set/Print Compares and sublish for this purpose 0200 0 1 min GP Offer Set/Print Compares and sublish for this purpose 0200 0 1 min GP Offer Set/Print Compares and sublish for this purpose 0200 0 1 min GP Offer | LSE | NOTE: The two sets are interdependent: HSE (maximum set) cannot be less than | -33.UПЗЕ | -50.0 | | I | C/ F |
| OP Offet Stefanit. Temperature value to be added algebraicably to the support in the case of the support layer. Configure 1 enclose the propose of the case of the support layer of the case of the support layer. Configure 1 enclose the propose of the case of th | | LSe (minimum set) and vice versa | | | | | |
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| 0 = "dft" parameter in mours. 1 = "dft" parameter in mours. 2 = "dft" parameter in mours. 2 = "dft" parameter in mours. 0 = compressor hour of operation (DIGIFROST0 method); Defrosting active ONLY with 0 = df 0 = compressor number of counting is active if evaporator probe is absent or faulty). The value is 2=5C ignored if RTC is enabled. 1 = Real Time - hours of appliance operation; Defrost counting is always active when the machine is on and starts at each power-on. 2 = compressor stop. Every time the compressor stops a defrost cycle is performed according to the dY 3 = parameter with RTC. Defrostings at times set by d1d87, F1F8 parameters "dd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "rdd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "rdd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "rdd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 0 1 min defrost for the pare included in the da and Pd folders | dt2 | defrost time 2. Measure unit for defrosting duration ("dEt" parameter). | 0/1/2 | 1 | | 2 | num |
| 1 = 'dEt' parameter in minutes. 2 = 'dEt' parameter in seconds. dct defrost Counting type. Selection of count mode for the defrosting interval. 0/1/2/3 1 1 num dct defrost Counting type. Selection of count mode for the defrosting interval. 0/1/2/3 1 1 num dct defrost Counting type. Selection of count mode for the defrosting active ONLY with 0 = df 1 = num dct defrost Counting type. Selection of count mode for the defrosting active ONLY with 0 = df 1 num evaporator probe (counting is active if evaporator probe is absent or faulty). The value is 2=5C 3=RTC 3=RTC 1 = Real Time - hours of appliance operation: Defrost counting is always active when the machine is on and starts at each power-on. 2 = compressor stop. Every time the compressor stops a defrost cycle is performed according to the dtY 3= parameter with RTC. Defrostings at times set by d1d87, F1F8 parameters 023/059 24 1 hours/min "ddt dfd8 daily defrost start time 18. Range 023, 24 = off (default) 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are wisible only if dit=0, dct=3 with clock option present. They are included in the dd and f folders 1 250 < | | 0 = "dEt" parameter in hours. | | | | | |
| 2 = 7dtt parameter in seconds. dct defrost Counting type. Selection of count mode for the defrosting interval. 0/1/2/3 1 1 num 0 = compressor hour of operation (DIGIRROST® method): Defrosting active ONLY with 0=df 0=df 1=rt exaporator probe (counting is active if evaporator probe is absent or faulty). The value is 2=5C 3=RTC 1 = Real Time - hours of appliance operation; Defrost counting is always active when the machine is on and starts at each power-on. 2=compressor stop. Every time the compressor stops a defrost cycle is performed according to the dtY 3= parameter with RTC. Defrosting at times set by d1d87, F1F8 parameters "dd" d1d8 daily defrost start time 18Range 023, 24= off (default) 023/059 24 1 hours/min *Fd* F1F1F8 festive defrost start time 18Range 023, 24= off (default) 023/059 24 1 hours/min *Fd* F1F8 festive defrost start time 18Range 023, 24= off (default) 023/059 0 1 min dct defrost fost Hour Start of deforest start time 18Range 023, 24= off (default) 023/059 0 1 min defrost fost Hour Start of defrosting itme-out; determines the maximum duration of 1250 30min 1 mours/min/sec | | 1 = "dEt" parameter in minutes. | | | | | |
| dcl defore Commersion to compresson to the deformation of the | dC+ | 2 = "definite parameter in seconds. | 0/1/2/2 | 1 | | 1 | |
| the compressor on. NOTE; compressor time of operation is counted regardless of the evaporator probe (counting is active if evaporator probe is absent or faulty). The value is jegnored if RTC is enabled. 1=rt 2=SC 3=RTC 1 = Real Time - hours of appliance operation; Defrost counting is always active when the machine is on and starts at each power-on. 2= compressor stop. Every time the compressor stops a defrost cycle is performed according to the dtY 3= parameter with RTC. Defrostings at times set by d1d87, F1F8 parameters 023/059 24 1 hours/min. Fdef "dd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min. WARNING: d1d8, F1F8 parameters are visible only if dit=0, dCt=3 with clock option present. They are included in the d1 and F1 of lodlers dOH defrost Endurance time. Defrosting time-out; determines the maximum duration of probe). 1250 30min 1 hours/min/sec (see dt2) dSt defrost Stop temperature. Defrosting end temperature (determined by the evaporator -stop 150 8.0 1 °C/*F deforst at art-up; n = no, doesn't start defrost. -3131 0 2 min of defrost defrost. Minimum time for compressor On or OFF before defrost If >0 (positive value), the compressor stays ON for tcd minutes; If <0 (negative value | act | $\Omega = compressor hour of operation (DIGIEROST® method): Defrosting active ONLY with$ | 0/1/2/3 0=df | I | | 1 | num |
| evaporator probe (counting is active if evaporator probe is absent or faulty). The value is ignored if RC is enabled. 2=SC 3=RTC 1 Real Time - hours of appliance operation; Defrost counting is always active when the machine is on and starts at each power-on. 2 2 ecompressor stop. Every time the compressor stops a defrost cycle is performed according to the dtY 3= parameter with RTC. Defrostings at times set by d1d87, F1F8 parameters "dd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Edd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are visible only if d1t=0, dCt=3 with clock option present. They are included in the dd and Fd folders dCH defrost Enflurance time. Defrosting delay time from start up of instrument. 059 0 1 min dEt defrost Stop temperature. Defrosting end temperature (determined by the evaporator -50.0 150 8.0 1 °C/'F probe). defrost start-tup; n = no, doesn't start defrost. defrost of Power On. Determines if at start-up the instrument must enter defrosting (if n/y n) 1 flag dte to compressor stays OFF for tcd minutes; if =0, thegrameter is ignored. -3131 0 <td></td> <td>the compressor on. NOTE: compressor time of operation is counted regardless of the</td> <td>1=rt</td> <td></td> <td></td> <td></td> <td></td> | | the compressor on. NOTE: compressor time of operation is counted regardless of the | 1=rt | | | | |
| ignored if RTC is enabled. 3=RTC 1 = Real Time - hours of appliance operation; Defrost counting is always active when the machine is on and starts at each power-on. 3= compressor stop. Every time the compressor stops a defrost cycle is performed according to the drY 2 = compressor stop. Every time the compressor stops a defrost cycle is performed according to the drY 3= parameter with RTC. Defrostings at times set by d1d87, F1F8 parameters 023/059 24 1 hours/min "Edd" f188 taigut efforts start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Fd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are visible only if dit=0, dCt=3 with clock option present. They are included in the dd and Fd folders 059 0 1 min dOH defrost Offset Hour. Start-of-defrosting time-out; determines the maximum duration of 1250 30min 1 hours/min/sec (see dt2) d5t defrost Stop temperature. Defrosting end temperature (determined by the evaporator -50.0 150 8.0 1 °C/* defrost start start-up in = no, doesn't start defrost. -3131 0 2 min defrost stat st | | evaporator probe (counting is active if evaporator probe is absent or faulty). The value is | 2=SC | | | | |
| 1 = Real Time - hours of appliance operation; Defrost counting is always active when the machine is on and starts at each power-on. 2 = compressor stop. Every time the compressor stops a defrost cycle is performed according to the dtY 3= parameter with RTC. Defrostings at times set by d1d87, F1F8 parameters "dd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Fd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Fd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Fd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are visible only if dit=0, dCt=3 with clock option present. They are included in the dd and Fd folders 1 min dOH defrost Start-of-defrosting time-out; determines the maximum duration of 1250 30min 1 min/vsc defrost stop temperature. Defrosting end temperature (determined by the evaporator -50.0 150 8.0 1 °C/°F probe). defrost start-of-defrost. Minimum time | | ignored if RTC is enabled. | 3=RTC | | | | |
| machine is on and starts at each power-on. 2 = compressor stop. Every time the compressor stops a defrost cycle is performed according to the dtY 3= parameter with RTC. Defrostings at times set by d1d87, F1F8 parameters "dd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Fd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are visible only if dit=0, dCt=3 with clock option present. They are included in the dd and Fd folders dOH defrost Offset Hour. Start-of-defrosting delay time from start up of instrument. 059 0 1 min dEt defrost Endurance time. Defrosting time-out; determines the maximum duration of probe). 1250 30min 1 hours/min/sec (see dt2) dSt defrost Stop temperature. Defrosting end temperature (determined by the evaporator -50.0 150 8.0 1 °C/°F dPO defrost d10 Power On. Determines if at start-up the instrument must enter defrosting (if n/y n 1 flag flag defrost at start-up; n = no, doesn't start defrost. -3131 0 2 min | | 1 = Real Time - hours of appliance operation; Defrost counting is always active when the | | | | | |
| according to the dtY 3= parameter with RTC. Defrostings at times set by d1d87, F1F8 parameters "dd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Fd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are visible only if dit=0, dCt=3 with clock option present. They are included in the dd and Fd folders dOH defrost Endurance time. Defrosting time-out; determines the maximum duration of defrost stop temperature. Defrosting end temperature (determined by the evaporator probe). -50.0 150 8.0 1 °C/°F dFO defrost start-up: n = no, desn't start defrost. -3131 0 2 min dEt time compressor for defrost. Minimum time for compressor ON or OFF before defrost If -0 (positive value), the compressor start defrost. -3131 0 2 min dCd time compressor for defrost. Minimum time for compressor OFF in proximity of the defrost 060 0 2 min defrost start-up: n = no, desn't start defrost. ff -0 function is stopped. 060 0 2 min | | machine is on and starts at each power-on. | | | | | |
| 3= parameter with RTC. Defrostings at times set by d1d87, F1F8 parameters "dd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Fd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Fd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are visible only if dit=0, dCt=3 with clock option present. They are included in the dd and Fd folders 1 hours/min/set dOH defrost Offset Hour. Start-of-defrosting delay time from start up of instrument. 059 0 1 min dEt defrost Endurance time. Defrosting time-out; determines the maximum duration of taffosting. 1250 30min 1 hours/min/set defrost for thourance time. Defrosting end temperature (determined by the evaporator allows this operation). y = yes, starts -50.0 150 8.0 1 °C/°F defrost (at) Power On. Determines if at start-up the instrument must enter defrost If -3131 0 2 min of opositive value), the compressor for defrost. Minimum time for compressor On or OFF before defrost If | | according to the dty | | | | | |
| Defrostings at times set by d1d87, F1F8 parameters "dd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Fd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are visible only if dt=0, dCt=3 with clock option present. They are included in the dd and Fd folders 023/059 0 1 min dOH defrost Endurance time. Defrosting time-out; determines the maximum duration of 1250 30min 1 hours/min/sec (see dt2) dSt defrost Stop temperature. Defrosting end temperature (determined by the evaporator -50.0 150 8.0 1 °C/°F probe). dPO defrost at start-up the instrument must enter defrosting (if n/y n 1 flag the compressor for defrost. Minimum time for compressor On or OFF before defrost If -3131 0 2 min >0 (positive value), the compressor stars OFF for tcd minutes; If =0, the parameter is ignored. 060 0 2 min Cod Compressor off (before) defrost. Time for compressor OFF in proximity of the defrost cycle is set within the programmed time for this parameter, the compressor is not started up. If =0 function is stopped. 060 0 2 | | 3= parameter with RTC. | | | | | |
| "dd" d1d8 daily defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min "Fd" F1F8 festive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are visible only if dit=0, dCt=3 with clock option 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are visible only if dit=0, dCt=3 with clock option 023/059 0 1 min dEt defrost Endurance time. Defrosting delay time from start up of instrument. 059 0 1 hours/min/sec defrost Stop temperature. Defrosting end temperature (determined by the evaporator probe). -50.0 150 8.0 1 °C/°F grobe). defrost at start-up the instrument must enter defrosting (if the temperature measured by the evaporator allows this operation). y = yes, starts defrost at start-up; n = no, doesn't start defrost. -3131 0 2 min >0 (positive value), the compressor of on of prostsor stays ON for tcd minutes; If <0 (negative value), the compressor off befored. The parameter is ignored. | | Defrostings at times set by d1d87, F1F8 parameters | | | | | |
| "Fd" F1F8 testive defrost start time 18. Range 023, 24= off (default) 023/059 24 1 hours/min WARNING: d1d8, F1F8 parameters are visible only if dit=0, dCt=3 with clock option present. They are included in the dd and Fd folders 1 min dOH defrost Offset Hour. Start-of-defrosting delay time from start up of instrument. 059 0 1 min dEt defrost Endurance time. Defrosting time-out; determines the maximum duration of defrosting. 1250 30min 1 hours/min/sec defrost Stop temperature. Defrosting end temperature (determined by the evaporator probe). -50.0 150 8.0 1 °C/°F dPO defrost (at) Power On. Determines if at start-up the instrument must enter defrosting (if the compressor of defrost. the evaporator allows this operation). y = yes, starts defrost at start-up; n = no, doesn't start defrost. 1 flag tcd time compressor for defrost. Minimum time for compressor On or OFF before defrost If >0 (positive value), the compressor stays ON for tcd minutes; If <0 (negative value), the compressor off (before) defrost. Time for compressor OFF in proximity of the defrost 060 | <u>"dd"</u> | d1d8 daily defrost start time 18. Range 023, 24= off (default) | 023/059 | 24 | | 1 | hours/min |
| with Nike Grunder, Frunks parameters are visible only if dited, dct=3 with clock option present. They are included in the dd and Fd folders dOH defrost Offset Hour. Start-of-defrosting delay time from start up of instrument. 059 0 1 min dEt defrost Endurance time. Defrosting time-out; determines the maximum duration of 1250 30min 1 hours/min/sec defrost Stop temperature. Defrosting end temperature (determined by the evaporator probe). -50.0 150 8.0 1 °C/°F dPO defrost (at) Power On. Determines if at start-up the instrument must enter defrosting (if n/y n 1 flag defrost at start-up; n = no, doesn't start defrost. -3131 0 2 min tcd time compressor of defrost. Minimum time for compressor On or OFF before defrost If >0 (negative value), the compressor stays ON for tcd minutes; If <0 (negative value), the compressor stays OFF for tcd minutes; If =0, the parameter is ignored. | "Fd" | F1F8 festive defrost start time 18. Range 023, 24= off (default) | 023/059 | 24 | | 1 | hours/min |
| dOHdefrost Offset Hour. Start-of-defrosting delay time from start up of instrument.05901mindEtdefrost Endurance time. Defrosting time-out; determines the maximum duration of defrosting.125030min1hours/min/sec (see dt2)dStdefrost Stop temperature. Defrosting end temperature (determined by the evaporator probe)50 1508.01°C/°FdPOdefrost (at) Power On. Determines if at start-up the instrument must enter defrosting (if the temperature measured by the evaporator allows this operation). y = yes, starts defrost at start-up; n = no, doesn't start defrost.n/yn1flagtcdtime compressor for defrost. Minimum time for compressor On or OFF before defrost If compressor stays OFF for tcd minutes; If =0, the parameter is ignored313102minCodCompressor off (before) defrost. Time for compressor OFF in proximity of the defrost cycle. If a defrost cycle is set within the programmed time for this parameter, the com- pressor is not started up. If =0 function is stopped.02min | | present. They are included in the dd and Ed folders | | | | | |
| dEt defrost Endurance time. Defrosting time-out; determines the maximum duration of defrosting. 1250 30min 1 hours/min/sec (see dt2) dSt defrost Stop temperature. Defrosting end temperature (determined by the evaporator probe). -50.0 150 8.0 1 °C/°F dPO defrost (at) Power On. Determines if at start-up the instrument must enter defrosting (if the temperature measured by the evaporator allows this operation). y = yes, starts defrost at start-up; n = no, doesn't start defrost. n/y n 1 flag tcd time compressor for defrost. Minimum time for compressor On or OFF before defrost If >0 (positive value), the compressor stays ON for tcd minutes; If <0 (negative value), the compressor stays OFF for tcd minutes; If <0, the parameter is ignored. | dOH | defrost Offset Hour. Start-of-defrosting delay time from start up of instrument. | 059 | 0 | | 1 | min |
| dEt defrost Endurance time. Defrosting time-out; determines the maximum duration of defrosting. 1250 30min 1 hours/min/sec (see dt2) dSt defrost Stop temperature. Defrosting end temperature (determined by the evaporator probe). -50 150 8.0 1 °C/°F dPO defrost (at) Power On. Determines if at start-up the instrument must enter defrosting (if the temperature measured by the evaporator allows this operation). y = yes, starts defrost at start-up; n = no, doesn't start defrost. n/y n 1 flag tcd time compressor for defrost. Minimum time for compressor On or OFF before defrost If >0 (positive value), the compressor stays ON for tcd minutes; If <0 (negative value), the compressor stays OFF for tcd minutes; If <0, the parameter is ignored. | | | | | | | |
| defrosting. (see dt2) dSt defrost Stop temperature. Defrosting end temperature (determined by the evaporator probe). -50.0 150 8.0 1 °C/°F dPO defrost (at) Power On. Determines if at start-up the instrument must enter defrosting (if the temperature measured by the evaporator allows this operation). y = yes, starts n/y n 1 flag defrost at start-up; n = no, doesn't start defrost. the temperature measured by the evaporator allows this operation). y = yes, starts -3131 0 2 min >0 (positive value), the compressor stays ON for tcd minutes; If <0 (negative value), the compressor stays OFF for tcd minutes; If <0, the parameter is ignored. | dEt | defrost Endurance time. Defrosting time-out; determines the maximum duration of | 1250 | 30min | | 1 | hours/min/sec |
| ast derrost stop temperature. Derrosting end temperature (determined by the evaporator probe). -50.0 150 8.0 1 °C/°F dPO defrost (at) Power On. Determines if at start-up the instrument must enter defrosting (if the temperature measured by the evaporator allows this operation). y = yes, starts n/y n 1 flag defrost at start-up; n = no, doesn't start defrost. terrosting end temperature is ignored. -3131 0 2 min compressor stays OFF for tcd minutes; If =0, the parameter is ignored. -3131 0 2 min Cod Compressor off (before) defrost. Time for compressor OFF in proximity of the defrost off the defrost off the defrost off the parameter is ignored. 060 0 2 min regions of is not started up. If =0 function is stopped. If =0 function is stopped. 0 0 2 min | -10. | defrosting. | F0.0 450 | 0.0 | | 1 | (see dt2) |
| dPO defrost (at) Power On. Determines if at start-up the instrument must enter defrosting (if the temperature measured by the evaporator allows this operation). y = yes, starts n/y n 1 flag defrost at start-up; n = no, doesn't start defrost. defrost at start-up; n = no, doesn't start defrost. -3131 0 2 min >0 positive value), the compressor for defrost. Minimum time for compressor On or OFF before defrost If compressor stays ON for tcd minutes; If <0 (negative value), the compressor stays OFF for tcd minutes; If <0, the parameter is ignored. | aSt | defrost Stop temperature. Defrosting end temperature (determined by the evaporator | -50.0 150 | 8.0 | | I | -C/-F |
| the temperature measured by the evaporator allows this operation). y = yes, starts defrost at start-up; n = no, doesn't start defrost. tcd time compressor for defrost. Minimum time for compressor On or OFF before defrost If >0 (positive value), the compressor stays ON for tcd minutes; If <0 (negative value), the compressor stays OFF for tcd minutes; If =0, the parameter is ignored. Cod Compressor off (before) defrost. Time for compressor OFF in proximity of the defrost cycle. If a defrost cycle is set within the programmed time for this parameter, the com- pressor is not started up. If =0 function is stopped. | dPO | defrost (at) Power On. Determines if at start-up the instrument must enter defrosting (if | n/v | n | | 1 | flag |
| defrost at start-up; n = no, doesn't start defrost. tcd time compressor for defrost. Minimum time for compressor On or OFF before defrost If -3131 0 2 min >0 (positive value), the compressor stays ON for tcd minutes; If <0 (negative value), the | | the temperature measured by the evaporator allows this operation). $y = yes$, starts | , | | | | |
| time compressor for defrost. Minimum time for compressor On or OFF before defrost If -3131 0 2 min >0 (positive value), the compressor stays ON for tcd minutes; If <0 (negative value), the | | defrost at start-up; n = no, doesn't start defrost. | | | | | |
| >0 (positive value), the compressor stays ON for tcd minutes; If <0 (negative value), the compressor stays OFF for tcd minutes; If =0, the parameter is ignored. | tcd | time compressor for defrost. Minimum time for compressor On or OFF before defrost If | -3131 | 0 | | 2 | min |
| Compressor stays OFF for tcd minutes; if =0, the parameter is ignored. Cod Compressor off (before) defrost. Time for compressor OFF in proximity of the defrost cycle. If a defrost cycle is set within the programmed time for this parameter, the compressor is not started up. If =0 function is stopped. 060 0 2 min | | >0 (positive value), the compressor stays ON for tcd minutes; If <0 (negative value), the | | | | | |
| cycle. If a defrost cycle is set within the programmed time for this parameter, the com- pressor is not started up. If =0 function is stopped. | Cod | compressor stays OFF for too minutes; if =0, the parameter is ignored. | 0 60 | 0 | | ъ | min |
| pressor is not started up. If =0 function is stopped. | COU | cycle. If a defrost cycle is set within the programmed time for this parameter the com- | 00 | U | | 2 | |
| · · · · · · · · · · · · · · · · · · · | | pressor is not started up. If =0 function is stopped. | | | | | |
| | | | | | | | |

| PAR. | DESCRIPTION | RANGE | DEFAULT | VALUE* | LEVEL*** | U.M. |
|---------|---|------------|---------|--------|----------|---------|
| | FAN CONTROL (folder with "FAn" label) | 0/1 | 0 | | 2 | flag |
| FPt | Fan Parameter type. Characterizes the "FSt" parameter, which can be expressed as tem- | | | | | |
| | perature absolute value or as a value related to the Setpoint. 0 = absolute; 1 = relative. | | | | | |
| FSt | Fan Stop temperature. Fan lock temperature; a value, read by the evaporator probe high- | -50.0150.0 | 2.0 | | 1 | °C/°F |
| | depending on parameter FPt could represent the temperature in absolute value or rela- | | | | | |
| | tive to the Setpoint. | | | | | |
| Fot | Fan on-start temperature. Fan start temperature; if the temperature read by the evapora- | -50.0150.0 | -50.0 | | 2 | °C/°F |
| | tor is lower than the value set for this parameter, the fans stay still. The value is positive | | | | | |
| | or negative and, depending on parameter FPT, could represent the temperature in absolute value or relative to the Setopint | | | | | |
| FAd | FAn differential. Fan activation intervention differential (see par. "FSt" and "Fot"). | 1.050.0 | 2.0 | | 1 | °C/°F |
| Fdt | Fan delay time. Delay time at fan activation after a defrosting cycle. | 0250 | 0 | | 1 | min |
| dt | drainage time. Dripping time. | 0250 | 0 | | 1 | min |
| dFd | defrost Fan disable. It allows for the evaporator fans to be excluded or not during | n/y | У | | 1 | flag |
| FCO | Fan Compressor OFF. It allows selection or not of the fan lock when compressor is OFF | n/v/dc | v | | 1 | num |
| | (switched off). | | 5 | | | |
| | y = fans active (with thermostat; depending on the value read by the defrosting probe, | | | | | |
| | see "FSt" parameter); | | | | | |
| | n = rans on; ac = auty cycle (through Fon and FoF parameters). | | | | | |
| Fod | Fan open door open. Allows to select the fans stop when door is open, and the fan re- | n/y | n | | 2 | flag |
| | start when door is shut (if they we active). n=fans stop; y=fans unchanged | - | | | | |
| FdC | Fan delay Compressor off. Fan switch off delay time after compressor stop. In minutes. | 099 | 0 | | 2 | min |
| Fon | U= TUNCTION EXCLUDED Fan an (in duty cycle) Time the fans are ON in a duty cycle | 0.00 | 0 | | 2 | min |
| FOII | Use of fans in duty cycle, nine the rais are on in a duty cycle. Use of fans in duty cycle mode: valid for $FCO = dc$ and $H42=1$ ((evaporator) probe 2 pre- | 033 | 0 | | 2 | 10001 |
| | sent) | | | | | |
| FoF | Fan oFF (in duty cycle). Time the fans are OFF in a duty cycle. | 099 | 0 | | 2 | min |
| | Use of fans in duty cycle mode; valid for FCO = dc and H42=1 ((evaporator) 2 probe pre- | | | | | |
| | Sent) ALARMS (folder with "AL" label) | | | | | |
| Att | Alarm type. Parameter "HAL" and "LAL" modes, as temperature absolute value or as dif- | 0/1 | 0 | | 2 | flag |
| , | ferential compared to the Setpoint. | | | | | |
| | 0 = absolute value; 1 = relative value. | <u> </u> | | | | |
| AFd | Alarm Fan differential. Alarm differential. | 1.050.0 | 2.0 | | 1 | °C/°F |
| HAL (2) | from the Setpoint, or as an absolute value based on Att) which if exceeded in an upward | LAL150.0 | 50.0 | | I | C/ F |
| | direction triggers the activation of the alarm signal. See Max/Min. Alarm Diagram. | | | | | |
| LAL (2) | Lower ALarm. Minimum temperature alarm. Temperature value (understood as distance | -50.0HAL | -50.0 | | 1 | °C/°F |
| | from the Setpoint, or as an absolute value based on Att) which if exceeded in a down- | | | | | |
| | Power-on Alarm Override Alarm exclusion time after instrument switch on after a power | 0 10 | 0 | | 1 | hours |
| (3) | failure. | 010 | Ū | | | nours |
| dAO | defrost Alarm Override. Alarm exclusion time after defrost. | 0999 | 0 | | 1 | min |
| OAO | Alarm signaling delay after digital input disabling (door open). | 010 | 0 | | 2 | hours |
| tdO | Alarm is only for nigh-low temperature alarms. | 0.250 | 0 | | 2 | min |
| luo | open) | 0250 | 0 | | 2 | 11111 |
| tAO (3) | temperature Alarm Override. Temperature alarm signal delay dime. | 0250 | n | | 1 | flag |
| dAt | defrost Alarm time. Alarm signal for defrosting end due to time-out. | n/y | 0 | | 2 | min |
| EAL | n = activates alarm; y = does not activate alarm. | n/u | n | | 2 | flag |
| AOP | Alarm Output Polarity. Polarity of alarm output. | 0/1 | 1 | | 2 | flag |
| | 0 = alarm active and output disabled; | | | | | |
| | 1 = alarm active and output enabled. | | | | | |
| PbA | Configuring temperature alarm on probe 1 and/or 3. $0 = alarm on probe 1$ (thermostating): | 03 | 0 | | 2 | min |
| | 1 = alarm on probe 3 (display) : | | | | | |
| | 2 = alarm on probes 1 and 3 (both thermostating and display). | | | | | |
| | 3 = alarm on probes 1 and 3 (both thermostating and display) on external threshold; Probe 3 alarm | | | | | |
| SA3 | Set-Point (display) | -50.0150.0 | 0 | | 2 | °C/°F |
| | Probe 3 alarm delay (display) | -30.030.0 | 2.0 | | 2 | min |
| | LIGHT AND DIGITAL INPUTS (folder with "Lit" label) | 0 | 0 | | - | |
| dSd | Enabling light relay by door switch. | n/y | У | | 2 | flag |
| | n = door open, the light does not turn on; | | | | | |
| di t | y = door open, the light turns on (if it was off). | 0.31 | 0 | | 2 | min |
| uLt | minutes after shutting the door if dSd parameter is set for this. | 001 | U | | 2 | 11/111 |
| OFL | The light key always disables the light relay. Enables the switching off through the cell | n/y | n | | 2 | flag |
| | light switch even if it is enabled the delay after closing the door set by dLt | | | | | |
| dOd | Door switch switches off loads . On digital input command, programmed as door-switch, | n/y | n | | 2 | flag |
| | anows to stop an the toads when opening the door and re-starting them when the door is shut (respecting any timings in progress) | | | | | |
| dAd | Digital input enabling delay. | 0255 | 0 | | 2 | min |
| | | | | | | |

| PAR. | DESCRIPTION | RANGE | DEFAULT | VALUE* | LEVEL** | U.M. |
|--------------------|---|-----------------|---------|--------|---------|-----------|
| L00 | LINK CONTROL (folder with "Lin" label) Master, Slave, Keyboard Selection It allows selection of the instrument as Master (0), Slave (from 1 to 7), Echo(0, in this case the Echo is a repetitor of the Master also if con- | 07 | 0 | | 2 | num |
| L01 | Number of Slaves in the network (from 0 to 7). For Slaves/Echo leave the value =0 | 07 | 0 | | 2 | num |
| L03 | Refers to Master and Slave. Defrosting Simultaneous/sequential. Master: n=sequential; y = simultaneous | n/y | n | | 2 | flag |
| L04 | Slave: n=ignore; y=accept. Distributed Display Referred to Slave only. Deployed view. n = the Slave shows local values; y = the Slave shows the display of the | n/y | у | | 2 | flag |
| L05 | Master Network Command Enabled Referred both to the Master and the Slave. Master: n = does not request Slaves to acti- vate remote functions; y = requests Slaves to activate remote functions. Slave: n = ignores remote functions activation originating from the Master; y = accepts remote | n/y | n | | 2 | flag |
| L06 | functions activation originating from the Master. Resources Lock At End Of Defrost Locks resources (compressors/fans, etc.) at the end of defrosting. n=no; y=yes NOTE: | n/y | У | | 2 | flag |
| L07 | Alarm Relay with slave Alarm Enabling of alarm relay in the event of a slave alarm | n/y | n | | 2 | num |
| L08 | Network Command Enabled from Slave | n/v | n | | 2 | num |
| | Enabling of network functions from slave base | | | | | |
| L09 | | | | | | |
| NIGI SEE | HT/DAY CONTROL (night and day) (folder with "nad" label) USER MANUAL Event table (NIGHT AND DAY) for day0, day1, day2, day3, day4, day5, | day6, and ever | y day | | | |
| E00 | NIGHT/DAY CONTROL (night and day) (folder with label "nad") Functions disabled during events: 0 = management disabled; 1 = reduced set; 2 = reduced set+light: 3 = reduced set+light+aux 4= instrument off Event start | 04 | 0 | | 2 | num |
| E01 | hours/minutes. Sets the event start time. The "NIGHT" mode starts at this time. The length is determined by E02. | 023/059 | 0 | | 2 | hours/min |
| E02 E03 | Blocking/unblocking daily or festive defrosting. NOTE: doesn't affect the defrosting at | 099 | 0 | | 2 | flag |
| | intervals like Every Day event. | | | | | |
| | COMMUNICATION: FOLDER PRESENT ONLY FOR LA MODELS | | | | | |
| dEA (!) | dEA= device number within the family (valid values: from 0 to 14) | 014 | 0 | | 1 | num |
| faa (!) | The value couple FAA and dEA represents the network address of the device and it is | 014 | U | | I | num |
| | indicated in the following way: "FF.DD" (where FF=FAA and DD=dEA). | | | | | |
| LOC | (keyboard) LOCk. Keyboard locking. It is still possible to enter parameter programming and modify them, including the status of this parameter, in order to allow keyboard unlocking. $v = ves$ (keyboard locked): $n = no$. | n/y | n | | 1 | flag |
| PA1 | PAssword 1. When enabled (value different from 0) it represents the access key for level | 0250 | 0 | | 1 | num |
| PA2*** | Parameters. PAssword 2. When enabled (value different from 0) it represents the access key for level 2 parameters. | 0255 | 0 | | 2 | num |
| ndt | number display type. View with decimal point, $y = yes$ (view with decimal point); $n = no$ | n/y | n | | 1 | flag |
| CA1 | CAlibration 1. Positive or negative temperature value added to the value read by probe 1, | -12.012.0 | 0 | | 1 | °C/°F |
| CA2 | based on "CA" parameter settings. CAlibration 2. Positive or negative temperature value added to the value read by probe 2. | -12.012.0 | 0 | | 1 | °C/°F |
| | based on "CA" parameter settings. | 120, 120 | 0 | | 1 | 96/95 |
| CA3 | based on "CA" parameter settings. | -12.012.0 | 0 | | I | °C/°F |
| CA | CAlibration Intervention. Intervention on view offset, thermostat offset or both. $\Omega = modifies the temperature displayed only:$ | 0/1/2 | 2 | | 2 | num |
| | adds to the temperature used by regulators, not to the temperature displayed, which stays unchanged; adds to the temperature displayed that is also used by regulators. | | | | | |
| LdL | Low display Label. Minimum value the instrument is able to display. | -55.0302 | -50.0 | | 2 | °C/°F |
| HdL | High display Label. Maximum value the instrument is able to display. | -55.0302 | 140.0 | | 2 | °C/°F |
| dul | 0 = shows the temperature read by the thermostat probe; 1 = locks the reading on the temperature value read by thermostat probe when defrosting starts, and until the next time the Setpoint value is reached; 2 = displays the label "deF" during defrosting, and until the next time the Setpoint value is reached. | 0/1/2 | · | | I | num |
| Ldd | Lock defrost disable. Time-out value for delock display (dEF label) if reaching the set- point is too long during defrosting, or if the Master-Slave Link communication fails (E7 | 0255 | 0 | | 1 | min |
| dro (°) | display read-out. Select °C or °F for displaying the temperature read by the probe. $0 = °C$, $1 = °F$. PLEASE NOTE: the switch between °C and °F DOES NOT modify the set- point differential etc. (for example cot-10°C become 10°E) | 0/1 | 0 | | 1 | flag |
| ddd | 0 = Setection of the value type to be shown on the display. 0 = Setection of the value type to be shown on the display. 1 = probe 1(thermostat); 2 = probe 2(evaporator); 2 = probe 2 (display) | 0/1/2/3 | 1 | | 2 | num |
| (•) para The ma | s = prope s (display). meter dro: thematical conversion for temperature is °F=(9/5)* °C+32. for example: 32°F=0°C; 50°F | =10 ° C. | | | | |

with the change from *C to *F and vice versa, the mathematical conversion is NOT carried out and the setpoint values, differential, etc. are NOT changed. It will therefore be necessary to review all the temperature values set, e.g. with a setpoint set to10*C, when changing the value to *F, the setpoint will become 10*G=F and not 50*F! (according to the conversion table):

| R. DE | SCRIPTION | RANGE | DEFAULT | VALUE* | LEVEL** | υ. |
|-----------------------------------|---|----------------|----------|--------|---------|-----|
| CO | ONFIGURATION (folder with "CnF" label) | | | | | |
| 0 (!) | Probe type selection, PTC or NTC. 0 = PTC; 1 = NTC. | 0/1 | 1 | | 1 | fla |
| Z IIII DO | WN keys configured with a second function (defrost, aux, etc.), the time for the rapid | 015 | J | | 2 | 50 |
| ena | abling of the same is set. Aux is an exception, which has a fixed time of 1 second | | | | | |
| | | | | | | |
| 6 Key 8 Sta | y/input aux/light-door switch active when instrument is off (but powered) | n/y 0/1/2 | <u>y</u> | | 2 | fla |
| 0 3ta 0=0 | display switch off only: | 0/1/2 | 2 | | 2 | nu |
| 1= | display on and controls locked; | | | | | |
| 2= | display off and controls locked; | | | | | |
| 2= L (4) Co | display shows 'OFF' and controls locked; nfiguring digital inputs/polarity | -13 13 | 4 | | 2 | nı |
| 0= | disabled; 1 = defrosting; | 101110 | · | | - | |
| 2 = | = reduced set; 3 = auxiliary; | | | | | |
| 4 = | = door switch; 5 = external alarm | | | | | |
| 7 = | = stand-by (ON-OFF) 8 = maintenance request (only LX models) | | | | | |
| 9 = | = minimum pressure switch 10 = maximum pressure switch | | | | | |
| 11 | = generic pressure switch 12 = preheating | | | | | |
| 13 (4) Dia | = evaporator fan forcing | 12 12 | 2 | | 2 | nı |
| (4) Dig (4) Dig | gital inputs/polarity configuration. The same as H11 | -1313 | 12 | | 2 | n |
| (4) Dig | gital inputs/polarity configuration. The same as H11. | -1313 | 11 | | 2 | nı |
| (4) | WARNING! positive or negative values change polarity | | | | | |
| (!) Dig | gital output 1 configurability. (A) | 010 | 1 | | 2 | nı |
| 1 = | = Compressor | | | | | |
| 2 = | = defrosting; | | | | | |
| 3 = | = fans; | | | | | |
| 4 = | = alarm; = auvilian | | | | | |
| 5 - 6 = | = auxiliary. = stand-by | | | | | |
| 7 = | = light | | | | | |
| 8 = | = buzzer | | | | | |
| 9 = | = 2nd evaporator | | | | | |
| | = 2nd compressor - ONLY ON SPECIFIC MODELS - | 0 10 | 2 | | 2 | nı |
| The | e same as H21. | 0 | | | - | |
| (!) Dig | gital output 3 configurability. (C) | 010 | 3 | | 2 | |
| The | e same as H21. | 0.10 | | | | nı |
| (!) Dig | gital output 4 configurability. (D) | 010 | 4 | | 2 | nı |
| (!) Dig | gital output 5 configurability 5. (E) | 010 | 7 | | 2 | |
| The | e same as H21. | | | | | |
| (!) Dig | gital output 6 configurability. (F) | 010 | 6 | | 2 | nı |
| (I) Co | nfigurability UP key. | 09 | 1 | | 2 | n |
| 0 = | = disabled; | | | | | |
| 1 = | = defrosting; (default) | | | | | |
| 2 = | = auxiliary; | | | | | |
| *4 | = HACCP alarm reset (*only in HACCP models): not used | | | | | |
| *5 | = disables HACCP alarms (*only in HACCP models); not used | | | | | |
| 6 = | = light; | | | | | |
| 7 = | = stand-by; | | | | | |
| 0 - 9 = | = not used | | | | | |
| (!) DO | DWN key configurability . | 09 | 0 | | 2 | n |
| Sa | ame as H31. (0= disabled; default) | | | | | |
| (!) ESC | C key configurability. | 09 | 3 | | 2 | n |
| (I) Fur | me as H31. U = disabled; default) nction 1 key configurability, default LIGHT | 0.9 | 6 | | 2 | n |
| (!) Fur | nction 2 key configurability. default on-off. | 09 | 7 | | 2 | n |
| Co | ntrol probe presence. n= not present; y= present. | n/y | У | | 2 | f |
| Eva | aporator probe presence. n= not present; y= present. | n/y | У | | 1 | f |
| Dis | splay probe configuration. n= not present; y= present (display probe); | n/y | n | | - | n |
| Ve | ctor Number | 10 | - | | - | |
| Nu | mber of errors allowed per maximum/minimum pressure switch input | 015 | 10 | | - | n |
| | | | | | | |
| Pre | essure switch error count interval | 099 | 60 | | - | n |
| rel | ease firmware. Device version: read only parameter. | / | / | | 1 | |
| tAk | ble of parameters. Reserved: read only parameter. | / | / | | 1 | |
| CO | OPY CARD (folder with "Fpr" label) | | | | | |
| Up | load. Programming parameter transfer from instrument to Copy Card. Down load. | / | / | | 1 | |
| Pro | ogramming parameter transfer from Copy Card to instrument. | / | / | |] ว | |
| FOI Da | rameter Fr PLEASE NOTE: using the "Fr" parameter (copy card formatting) the | / | / | | 2 | |
| P 41 | ta within the same will be lost permanently. The operation cannot be can- | | | | | |
| dat | U-4 | | | | | |
| da cel | lied. | | | | | |
| dat cel abel P4 | A2 | | | | | |
| dat cel abel PA. nside C | uea. A2 EnF folder, you can access all level 2 parameters only from label PA2 by pressing | the "set" butt | on | | | |

(1) see Duty Cycle diagram.

(2) See Max/Min. Alarm Diagram.(3) Referred exclusively to high and low temperature alarms

(4) WARNING! positive or negative values change polarity. Positive values: active input when the contact is closed; negative values: Active input when the contact is open.

Within the deF folder, there are two folders: "dd" (daily defrost) and "Fd" (Festive Defrost); the first folder includes d1...d8 parameters (working day defrost start); the second folder, instead includes F1...F8 parameters (Festive defrost start). The two folders are visible only if dit =3 and RTC is present.

* VALUE column: to be filled manually, with custom settings (if different from the default value).

** LEVEL column: indicates the level of visibility for parameters that can be accessed by a PASSWORD (see relevant paragraph)

**** PA2 is visible (it will be requested, if specified) at level 1 in CnF folder and can be set (it can be modified) at level 2 in dis folder

(!) WARNING!

If one or more parameters marked with (!) are modified, the controller must be switched off after the modification and then switched back on
 NOTE: It is strongly recommended, anyway to switch the instrument off and back on again anytime parameters have been changed to prevent malfunctioning on configuration and/or ongoing timings.

KEYBOARD LOCAL PARAMETERS

| PARAMETER | DESCRIPTION | RANGE | DEFAULT* | U.M. |
|--------------|--|--------|----------|------|
| | ECO (folder with "PLO" label) | | | |
| ECO | Type of keyboard | 01 | 0 | num |
| | 0= Master keyboard | | | |
| | 1= ECO keyboard | | | |
| adb | address base. Base address Keyboard | 04 | 0 | num |
| PA3 | PAssword. When enabled (value other than 0) it constitutes | 0255 | 0 | num |
| | the access key for the local keyboard parameters. | | | |
| rEL | reLease firmware. Device version: read only parameter. | 0999 | 0 | num |
| toA | time-out Address. Timeout of the tbA address. | 0250 | 10 | sec |
| | LiC (folder with "LiC" label) | | | |
| Li1 | Broadcast communication n= the keyboard communicates | n/y | n | num |
| | with the adb address base (see par.) (in this case there are | | | |
| | several bases); y = the keyboard communicates with the | | | |
| | broadcast address base (in this case there must only be one | | | |
| | base). | | | |
| tbA | Temporary navigation address base. | 04 | 0 | num |
| | Temporary address for network navigation | | | |
| | | | | |
| * DEFAULT co | olumn: The term default identifies the standard factory-set configur | ation; | | |

(!) WARNING!

•It is strongly recommended, anyway to switch the instrument off and back on again anytime parameters have been changed to prevent malfunctioning on configuration and/or ongoing timings.

NOTE : BASE UNIT/KEYBOARD CONNECTION/PROGRAMMING.

1 — THE BASE UNIT/KEYBOARD PROGRAMMING/CONFIGURATION CANNOT BE CARRIED OUT IF THE DEVICES ARE CONNECTED TO THE LINK NETWORK. THEREFORE, IT IS <u>FIRST</u> NECESSARY TO CONFIGURE THE MASTER AND SLAVE DEVICES (WITH RELATED KEYBOARDS) AND THEN CONNECT THEM TO THE LINK NETWORK.

2 — "FLICKERING" OF THE DISPLAYS ON THE KEYBOARD INDICATES THAT THE CONNECTED UNITS ALL HAVE THE SAME ADDRESS: DISCON-NECT THE LINK NETWORK AND PROGRAM EACH UNIT AS DESCRIBED ABOVE.

CONDITIONS OF USE

PERMITTED USE

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

The device must be adequately protected from water and dust as per the application and must also only be accessible via the use of tools (with the exception of the front panel).

The device is ideally suited for use on household appliances and/or similar refrigeration equipment and has been tested with regard to the aspects concerning European reference standards on safety. It is classified as follows:

according to its manufacture: as an automatic electronic control device to be incorporated by independent mounting;
according to its automatic operating features: as a 1B-type operated control type;
as a Class A device in relation to the category and structure of the software.

UNPERMITTED USE

The use of the unit for applications other than those described is forbidden. It should be noted that the relay contacts provided are of a practical type and therefore subject to fault.

Any protection devices required by product standards or dictated by common sense due to obvious safety reasons should be applied externally.

RESPONSIBILITY AND RESIDUAL RISKS

Eliwell Controls srl shall not be liable for any damages deriving from:

installation/use other than that prescribed and, in particular, which does not comply with safety standards anticipated by regulations and/or those given herein;
use on boards which do not guarantee adequate protection against electric shock, water or dust under the conditions of assembly applied;

use on boards which allow access to dangerous parts without the use of tools;
tampering with and/or alteration of the product;

• installation/use on boards that do not comply with the standards and regulations in force.

KEYBOARD CONNECTIONS / KEYBOARD-BASE / NETWORK



IWP 750-760 (LX) BASE CONNECTIONS



NOTE

The dimensions of the bases featuring IWP 750 and IWP 760 powers are different.

The layout of the bases, illustrated in the connection diagram, does not include the mechanical dimensions to scale, but is purely an indication of the position of the terminals and modules.

DISCLAIMER

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TERMINALS ALL MODELS

| 4 - 5 - 6 | "Powered" SHORT DISTANCE Serial connection |
|---------------|--|
| 7 - 8 - 9- 10 | LONG DISTANCE Serial |
| 11 - 12 | Digital input 1; programmable (see par. H11) |
| 13 - 14 | Digital input 2; programmable (see par. H12) |
| 15 - 16 | Digital input 3; programmable (see par. H13) |
| 17 - 18 | Digital input 4; programmable (see par. H14) |
| 19 - 20 | Probe 1 (thermostat) input |
| 21 - 22 | Probe 2 (evaporator) input |
| 23 - 24 | Probe 3 (display) input |
| (25 | Not Used) |
| OUT 1 (A) | N.O. relay output (A) see par. H21 (default 1) |
| OUT 2 (B) | relay output (B) see par. H22 (default 2) |
| OUT 3 (C) | N.O. relay output (C) see par. H23 (default 3) |
| OUT 4 (D) | relay output (D) see par. H24 (default 4) |
| OUT 5 (E) | N.O. relay output (E) see par. H25 (default 7) |
| TTL Copy Card | TTL input for Copy Card |
| | |

optional modules

LONG DISTANCE optional plug-in module for the base-keyboard connection using LONG DISTANCE Serial

ONLY FOR IWP 760 (LX) MODEL

OUT 6 (E) N.O. relay output (F) see par. H26 (default 6)

ONLY FOR IX MODELS

| UNLI FUR LA IV | |
|------------------|---|
| 1 - 2 - 3 | Serial 485 for TELEVIS |
| TTL | TTL input for connection to the Televis System |
| optional modules | |
| TELEVIS | optional plug-in module for the connection to the |
| | Televis System using Serial 485 |