IDNext 978 P/B -HC

Electronic controllers compatible with flammable refrigerant gases

Parameters Tables





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User Parameters IDNext 978 P/B

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
SEt	Control setpoint with range between the minimum LSE setpoint and the maximum HSE setpoint. The setpoint value is set in the 'Machine Status' menu.	LSEHSE	°C/°F		3.0	3.0	0.0	-18.0
diF	Compressor relay activation differential; the compressor stops when the setpoint value is reached (as indicated by the control probe) and restarts at a temperature value equal to the setpoint plus the differential value.	0.130.0	°C/°F		2.0	2.0	2.0	2.0
LSE	Minimum setpoint value.	-67.0 HSE	°C/°F		-55.0	-55.0	-55.0	-55.0
HSE	Maximum setpoint value.	LSE302	°C/°F		140.0	140.0	140.0	140.0
dEt	Defrost timeout. Determines the maximum duration of the defrost	1250	min		30	30	30	30
dS1	Evaporator 1 defrost end temperature (measured by probe Pb2)	-67.0302	°C/°F		8.0	8.0	8.0	8.0
dit	Time interval between one defrost and the next	0250	hours		6	6	6	6
FSt	Fan disabling temperature; a value, read by the evaporator probe.	-67.0320	°C/°F		8.0	8.0	8.0	8.0
Fdt	Fan activation delay time after a defrost.	0250	min		0	0	0	0
dt	Dripping time.	0250	min		0	0	0	0
dFd	Used to select or deselect the exclusion of the evaporator fans during defrosting. • n(0) = no • y(1) = yes (fan excluded - off).	n/y	flag		У	у	у	у
HAL	Maximum temperature alarm. Temperature value (in an absolute or relative value - see Att) which, when exceeded, will lead to the activation of alarm signaling.	LAL302	°C/°F		150.0	150.0	150.0	150.0
LAL	Minimum temperature alarm. Temperature value (in an absolute or relative value - see Att) which, when not reached, will lead to the activation of alarm signaling.	-67,0 HAL	°C/°F		-50.0	-50.0	-50.0	-50.0
CA1 (!)	Positive or negative temperature value to be added to the value of Pb1.	-30.030.0	°C/°F		0.0	0.0	0.0	0.0
CA2 (!)	Positive or negative temperature value to be added to the value of Pb2.	-30.030.0	°C/°F		0.0	0.0	0.0	0.0
PS1	When enabled (PS1 ≠0) this is the access key for the user parameters.	0250	num		0	0	0	0
H42	Probe Pb2 present. • n(0) = not present • y(1) = present.	n/y	flag		у	у	у	у
tAb	Reserved: read-only parameter.	1	1			/ (not in ap	plications)	

Note: the "User" menu parameters also include PA2, which allows access to the "Installer" menu.

Note: for the full list of parameters, see the section "Installer parameters".

Installer Parameters IDNext 978 P/B

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
SEt	Control setpoint with range between the minimum LSE setpoint and the maximum HSE setpoint. The setpoint value is set in the 'Machine Status' menu.	LSEHSE	°C/°F		3.0	3.0	0.0	-18.0
CP (Compre	essor)							
diF	Compressor relay activation differential; the compressor stops when the setpoint value is reached (as indicated by the control probe) and restarts at a temperature value equal to the setpoint plus the differential value.	0.130.0	°C/°F		2.0	2.0	2.0	2.0
LSE	Minimum setpoint value.	-67.0 HSE	°C/°F		-55.0	-55.0	-55.0	-55.0
HSE	Maximum setpoint value.	LSE302	°C/°F		140.0	140.0	140.0	140.0
НС	The regulator implements either cold operation (set "C(0)") or for hot (set "H(1)").	C/H	flag		0	0	0	0
ont	Regulator power-on time for a inoperable probe: • if Ont = 1 and OFt = 0 compressor is always on • if Ont = 1 and OFt > 0 compressor in duty cycle mode	0250	min		15	15	15	15
oFt	Regulator power-off time for a inoperable probe: • if OFt = 1 and Ont = 0 compressor is always off • if OFt = 1 and Ont > 0 compressor in duty cycle mode	0250	min		15	15	15	15
don	Compressor relay activation delay time after request	0250	s		0	0	0	0
doF	Delay time after power-off: the delay time indicated must elapse between deactivation of the compressor relay and the next power-on.	0250	min		0	0	0	0
dbi	Delay time between power-ons; the delay time indicated must elapse between two consecutive compressor power-ons.	0250	min		0	0	0	0
Cit	Minimum compressor activation time before it can be deactivated. If Cit = 0 it is not active.	0250	min		0	0	0	0
CAt	Maximum compressor activation time before it can be deactivated. If CAt = 0 it is not active.	0250	min		0	0	0	0
odo (!)	Delay in activating outputs after the controller is powered on or after a power failure. 0 = not active.	0250	min		0	0	0	0
dcS	"Deep Cooling Cycle" setpoint	-67.0302	°C/°F		0.0	0.0	0.0	0.0
tdC	"Deep Cooling Cycle" duration	0250	min		0	0	0	0
dcc	Defrost activation delay after a "Deep Cooling Cycle"	0250	min		0	0	0	0
CP2	Compressor 2 activation delay.	0250	min		0	0	0	0
dFA	Condenser fan and compressor activation delay from the request.	0250	s		0	0	0	0
dEF (Defros	st)			_				
dty	Type of defrost. • 0 = electric defrost or due to stoppage - compressor OFF during defrost • 1 = cycle inversion (hot gas) defrost; compressor on during defrost • 2 = defrost with "Free" mode; defrost independent of compressor.	0/1/2	num		0	0	0	0
doH	Defrost cycle activation delay from the call	0250	min		0	0	0	0
dt2	Unit of measure for defrost duration (dEt parameter) (only if dFt ≠ 0). • 0 = hours • 1 = minutes	0/1/2	num		1	1	1	1
	• 2 = seconds.							
dEt	Defrost timeout. Determines the maximum duration of the defrost	1250	min		30	30	30	30

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
dS1	Evaporator 1 defrost end temperature (measured by probe Pb2)	-67.0302	°C/°F		8.0	8.0	8.0	8.0
dPo	Defrost activation request at power-on, if the temperature measured by Pb2 allows. • n(0) = no	n/y	flag		n	n	n	n
tCd	y(1) = yes. Minimum period of time with the compressor ON or OFF before defrost is activated.	-127127	min		0	0	0	0
Cod	Time with the compressor OFF before defrost is activated	0250	min		0	0	0	0
dMr	Enables the defrost count reset in the case of manual defrosting. • n = count reset does not take place • y = count reset takes place	n/y	flag		n	n	n	n
d00	Compressor running time before defrost is activated	0250	hours		0	0	0	0
d01	 d00 unit of measure. 0 = hours 1 = minutes 2 = seconds. 	0/1/2	num		0	0	0	0
dit	Time interval between one defrost and the next	0250	hours		6	6	6	6
d11	 dit unit of measure. 0 = hours 1 = minutes 2 = seconds. 	0/1/2	num		0	0	0	0
d20	Can be used to activate the defrost when the compressor is off. • 0 = disabled. Defrost is not activated. • 1 = enabled. Defrost is activated when the compressor is off.	0/1	flag		0	0	0	0
d40	Enables/disables use of probe Pb2. 0 = disabled. Defrost does not take Pb2 into account 1 = enabled. Defrost runs according to the value read by Pb2 (only refers to defrost with threshold)	0/1	flag		0	0	0	0
d41	Sets the defrost activation threshold	-67.0302	°C/°F		0.0	0.0	0.0	0.0
d42	Sets the maximum time for which the evaporator can remain under the threshold d41	0250	min		0	0	0	0
d43	Sets the type of time count in which the evaporator temperature remains under the threshold value. • 0 = count independent of the compressor status • 1 = count with compressor on (when the compressor is off the count begins again) • 2 = count independent of the compressor status. The count stops when the temperature rises above the threshold d41 • 3 = count with compressor on and until the temperature rises above the threshold d41	03	num		0	0	0	0
d44	 O = absolute value (for example: d41 = -25°C means that the threshold temperature is exactly -25°C) I = relative value (negative offset, relative to the value measured by the defrost probe Pb2 (if d40 = 1) at the end of the first cooling cycle or on power-on) 	0/1	flag		0	0	0	0
Fan (Fans)	Sets whether parameter FSt is expressed as an absolute temperature value or as a value relative to the Setpoint. • 0 = absolute • 1 = relative.	0/1	flag		0	0	0	0

Parameter	Description			Range	MU	Custom	Default	AP1	AP2	AP3				
FSt	Fan dis			ature; a	value,	read b	y the	-67.0320	°C/°F		8.0	8.0	8.0	8.0
FAd	Evapor	ator far	trigger	differe	ential.			0.125.0	°C/°F		2.0	2.0	2.0	2.0
Fdt	Fan act	ivation	delay ti	me aft	er a def	rost.		0250	min		0	0	0	0
dt	Drippin	g time.						0250	min		0	0	0	0
dFd	• n (0 • y (1	Used to select or deselect the exclusion of the evaporator fans during defrosting. • n(0) = no • y(1) = yes (fan excluded - off).			n/y	flag		у	у	у	у			
	Evapor	ator far	operat	ting mo	ode.									
	Pb2 H42 FCo day night Cn Cf Cn Cf													
	ok	у	1 2	T	Off T DCd	T T	Off T DCn							
	ko	у	3 0 1 2	On On	Off On DCd	On On	Off On DCd	03						
FCo	no	n	3 0 1 2 3	On On On	Off On DCd DCd	On On On On	Off On DCd DCd		num		1	1	1	1
	Headings legend: Pb2 = probe Pb2 status (ok = present; ko = in E2 error and no = absent; day = day mode; night = night mode; Cn = compressor on; Cf = compressor off. Status legend: T = thermostat controlled fans; On = fans on; Off= fans off; DCd = Day duty cycle or DCn = Night duty cycle.													
Fon	Day du	• •						0250	min		0	0	0	0
FoF	Day du							0250	min		0	0	0	0
Fnn	Night d							0250	min		0	0	0	0
ESF	١ ,		activatio		IIIS OΠ.			0250 n/y	flag		n	n	n 0	n 0
AL (Alarms))													
Att	HAL ar	nd LAL . absolu	te value	e	value fo	or para	meters	0/1	flag		0	0	0	0
AFd	• 1 =	relative lifferent						0,125,0	°C/°F		2.0	2.0	2.0	2.0
HAL	Maximum temperature alarm. Temperature value (in an absolute or relative value - see Att) which, when exceeded, will lead to the activation of alarm signaling.				LAL302	°C/°F		150.0	150.0	150.0	150.0			
LAL	Minimum temperature alarm. Temperature value (in an absolute or relative value - see Att) which, when not reached, will lead to the activation of alarm signaling.				-67,0 HAL	°C/°F		-50.0	-50.0	-50.0	-50.0			
PAo	Alarm e					g on th	ne	010	min*10		0	0	0	0
dAo	Tempe defrosti		ılarm ex	clusio	n time a	after		0999	min		0	0	0	0

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
оАо	Alarm signaling delay after deactivation of the digital input (door closure). Alarm refers to high and low temperature alarms.	010	hours		0	0	0	0
tdo	Door open alarm activation delay time.	0250	min		0	0	0	0
tAo	Temperature alarm signaling delay time.	0250	min		0	0	0	0
	Defrost ended due to timeout alarm indication.							
dAt	 n(0) = alarm not activated y(1) = alarm activated. 	n/y	flag		0	0	0	0
	An external alarm inhibits the regulators.							
EAL	 0 = does not inhibit the regulators 1 = compressor and defrost inhibited 2 = fans, compressor and defrost inhibited; 	0/1/2	flag		n	n	n	n
	Alarm output polarity.		_					
AoP	0 = NO (Normally open)1 = NC (Normally closed).	0/1	flag		1	1	1	1
rFt	Low refrigerant alarm signaling delay.	0250	min		0 (no	n nelle a	pplicazio	oni)
Lit (Lights a	and digital inputs)			1				
	Digital input shuts off utilities.							
dOd	 0 = disabled 1 = disables fans 2 = disables compressor 3 = disables fans and compressor. 	03	num		0	0	3	3
dAd	Digital input activation delay	0250	min		0	0	0	0
dCo	Compressor switch-off delay from door opening.	0250	min		0	0	1	0
AUP	Auxiliary (AUX) output activation when the door is opened. • n(0) = disabled • y(1) = AUX output activation	n/y	flag		n	n	у	n
PrE (Pressu								
-	Number of errors permitted per							
PEn	minimum/maximum pressure switch input Minimum/maximum pressure switch error count	015	num		0	0	0	0
PEi	interval Compressor activation delay after pressure	199	min		1	1	1	1
PEt	switch deactivation	0255	min		0	0	0	0
EnS (Energy			Г	T				
oSP	Temperature value to be added to the setpoint in the case of an enabled reduced set (Economy function).	-30.030.0	°C/°F		0.0	0.0	0.0	0.0
odF	Differential offset during an energy saving cycle or reduced set.	0.130.0	°C/°F		2.0	2.0	2.0	2.0
Add (Comm	iunication)							
Adr	Modbus protocol controller address.	1247	num		1 (n	ot in app	olication	3)
bAU	Modbus Baudrate selection. • 96 (0) = 9600 baud • 192 (1) = 19200 baud • 384 (2) = 38400 baud	96/192/384	num		96 (1	not in ap	plicatior	s)
Pty	Modbus parity bit. • n(0) = none • E(1) = even • o(2) = odd.	n/E/o	num		E (not in applications)			
diS (Display								
dro	Selects the unit of measure used when displaying the temperature read by the probes. (0 = °C, 1 = °F). Note : changing from °C to °F or vice-versa does NOT change the SEt , diF values, etc. (example: SEt = 10°C becomes 10°F).	0/1	flag		0	0	0	0
CA1 (!)	Positive or negative temperature value to be added to the value of Pb1.	-30.030.0	°C/°F		0.0	0.0	0.0	0.0
CA2 (!)	Positive or negative temperature value to be added to the value of Pb2.	-30.030.0	°C/°F		0.0	0.0	0.0	0.0

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
	Activation of the calibration value.							
CAI	 0 = Adds the value to the temperature value displayed 1 = Adds the value to the temperature used by the regulators and not to the one displayed 2 = Adds the value to the temperature used by the regulators and to the temperature displayed. 	0/1/2	num		2	2	2	2
LoC	Keypad lock. • n(0) = Keypad lock disabled • y(1) = Keypad lock enabled (on startup or when 30 seconds have passed since the last action carried out on the user interface)	n/y	flag		у	у	у	у
ddd	 Selects the type of value to show on the display. 0 = setpoint 1 = Pb1 probe 2 = Pb2 probe 3 = Pb3 probe. 	03	num		1	1	1	1
ddL	Display mode during defrosting. • 0 = display the temperature read by Pb1 • 1 = inhibits reading on the value of Pb1 at the start of defrost and until the setpoint is reached • 2 = displays label dEF during defrost until the setpoint is reached.	0/1/2	num		0	0	0	0
Ldd	Display unlock timeout value - label dEF	0250	min		30	30	30	30
ndt	Display with decimal point. • n(0) = no • y(1) = yes.	n/y	flag		у	у	у	у
FSE	Sets the value (COEFF) used by the low-pass filter to calculate the temperature value to be displayed. • 0 = disabled • 1 = 200 • 2 = 100 • 3 = 50 • 4 = 25 • 5 = 12 • 6 = 6 7 = 2	07	num		0	0	0	0
FdS	• 7 = 3. Filter disabling threshold.	-67.0302	°C/°F		0.0	0.0	0.0	0.0
Ftt	Time that has passed beyond the value of FdS before the filter is disabled.	0250	min		0.0	0.0	0.0	0.0
FHt	Filter sampling interval.	1250	s		1	1	1	1
PS1	When enabled (PS1 ≠0) this is the access key for the user parameters.	0250	num		0	0	0	0
PS2	When enabled (PS2 ≠0) this is the access key for the installer parameters.	0250	num		15	15	15	15
CnF (Config								
Н00	Selects the probe type. • 0 = PTC • 1 = NTC • 2 = Pt1000.	0/1/2	flag		1	1	1	1
H08	Stand-by operating mode. • 0 = display off; the regulators are active and the device signals possible alarms by reactivating the display • 1 = display off; the regulators and the alarms are blocked • 2 = the display shows the label "OFF"; the regulators and alarms are inhibited.	0/1/2	num		2	2	2	2

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
	Configurazione ingresso digitale 1 (DI)/ polarità.							
Н11	 0 = disabilitato ±1 = sbrinamento ±2 = set ridotto ±3 = ausiliario ±4 = micro-porta ±5 = allarme esterno ±6 = stand-by ±7 = pressostato ±8 = abbattimento rapido ±9 = luce ±10 = risparmio energetico Nota: segno "+" indica che l'ingresso è attivo se il contatto è chiuso. segno "-" indica che l'ingresso è attivo se il contatto è aperto. 	-10+10	num		0	0	-4	-4
H21	Configuration of digital output 1 (Out1). • 0 = disabled • 1 = compressor • 2 = defrost • 3 = evaporator fans • 4 = alarm • 5 = auxiliary • 6 = stand-by • 7 = light • 8 = buzzer • 9 = compressor 2 • 10 = reserved • 11 = condenser fans • 12 = heater deadband control • 13 = reserved	013	num		1	1	1	1
H22	Configuration of digital output 2 (Out2). • 0 = disabled • 1 = compressor • 2 = defrost • 3 = evaporator fans • 4 = alarm • 5 = auxiliary • 6 = stand-by • 7 = light • 8 = buzzer • 9 = compressor 2 • 10 = reserved • 11 = condenser fans • 12 = heater deadband control.	012	num		2	2	2	2
H23	Configuration of digital output 3 (Out3). Same as H22 .	012	num		3	3	3	3
H24	Configuration of digital output 4 (Out4). Same as H22 .	012	num		4	4	7	7
H25	 Enables/disables the buzzer. 0 = disabled 1 = enabled. 	0/1	flag		1	1	1	1
Н31	Configuration of △ key. • 0 = disabled • 1 = defrost • 2 = auxiliary • 3 = reduced set • 4 = stand-by • 5 = reserved • 6 = reserved • 7 = deep cooling • 8 = light.	08	num		1	1	1	1
H32	Configuration of ∇ key. Same as H31 .	08	num		0	0	0	0
H33	Configuration of 🖰 key. Same as H31 .	08	num		4	4	4	4
H34	Configuration of ∜ key. Same as H31 .	08	num		0	0	0	0
H35	Configuration of ☆ key. Same as H31 .	08	num		0	0	0	0

Parameter	Description	Range	MU	Custom	Default	AP1	AP2	AP3
	Probe Pb2 present.							
H42	 n(0) = not present y(1) = present. 	n/y	flag		У	у	У	У
H60	Display selected application. 0 = disabled; 1 = AP1; 2 = AP2; 3 = AP3.	03	num		1 (r	ot in ap	plication	s)
tAb	Reserved: read-only parameter.	1	1		/ (n	ot in app	olications	s)
FPr (UNICA	RD)							
UL	Transfer of the programming parameters from the controller to the UNICARD.	1	/		- (not in applications)			
	UNICARD formatting. Deletes all data on the UNICARD.							
Fr	Note : the use of parameter Fr results in the loss of all data entered. This operation cannot be reversed.	1	/		- (not in applications)			s)
FnC (Functi	ons)							
tAL	Force alarm acknowledgment	1	/		- (not in applications)			
rAP	Reset pressure switch alarms	1	/		- (not in applications)			
Cnt	Reset TelevisAir diagnostic counters (see Reset TelevisAir diagnostic counters)	1	/		- (not in applications)			

Note: if one or more parameters in folder **CnF** or marked with (!) are changed, the controller must be switched off and then on again to make sure it works properly.

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