Electronic Control

XW60LH

KEYBOARD

SET	To display and modify target set point; in programming mode it selects a parameter or confirm an operation. Holding it pressed for 3 seconds, when max. or min. temperature is displayed it will be erased.
	To see max. recorded temperature; in programming mode it browses the parameter codes or increases the displayed value. Holding it pressed for 3 seconds the fast freezing cycle starts.
	To see min. recorded temperature; in programming mode it browses the parameter codes or decreases the displayed value.
	Holding it pressed for 3 seconds the defrosting starts.
	Switch ON and OFF the cold room light.
	Switch ON and OFF the unit.

OPERATION LEDS

LED	MODE	FUNCTION
	ON	The compressor is running.
	FLASHING	Anti-short cycle safety device on. Pressure switch/es opened (pressure switch).
	ON	The fan is running.
	FLASHING	Fan delay start-up after defrost.
	ON	Defrost enabled.
	FLASHING	Defrost is finished. Drip time in progress.
	ON	Fast freezing mode on.
ECO	ON	Energy saving mode on. Digital input set as active energy saving mode (depending on the model).
	ON	Cold room light on.

ALARM SIGNAL

Message	Cause	Output
P1	Thermostat probe failure	Alarm output ON; Compressor according "Con" and "COF"
P2	Evaporator probe failure	Alarm output ON; Defrost finish by time "MDF"
P3	Probe 3 failure	Alarm output ON.
P4	Probe 4 failure	Alarm output ON.
HA	High cold room temperature	Alarm output ON.
LA	Low cold room temperature	Alarm output ON.
HA2	High condensing temperature	Alarm output ON; it depends on "AC2" parameter.
LA2	Low condensing temperature	Alarm output ON; it depends on "bLL" parameter.
dA	Door switch alarm	Alarm output ON.
EA	External alarm	Alarm output ON.
CA	Pressure switch alarm i1F=bAL/PAL	All outputs OFF.

PARAMETER LIST

	Code	Description	Range	Default MT	Default BT	List
	Hy	Set point differential.	0,1÷25,5ºC	2,0		Pr1
	LS	Minimum set point.	-50,0ºC÷SET	-5	-25	Pr2
	US	Maximum set point.	SET÷110,0ºC	10	-15	Pr2
PROBES	Ot	Thermostat probe calibration.	-12,0÷12,0ºC	0		Pr1
PROBES	P2P	Evaporator probe presence (defrost): n=no (defrost by time) ; y=yes (defrost by time and temperature)	n-y	y		Pr2
PROBES	oE	Evaporator probe calibration.	-12,0÷12,0ºC	0		Pr2
PROBES	P3P	Third probe presence: n=no; y=yes.	n-y	n		Pr2
PROBES	O3	Third probe calibration.	-12,0÷12,0ºC	0		Pr2
PROBES	P4P	Fourth probe presence: n=no; y=yes.	n-y	y		Pr2
PROBES	O4	Fourth probe calibration.	-12,0÷12,0ºC	0		Pr2

	Code	Description	Range	Default MT	Default BT	List
REGULATION	OdS	Time in which functions excluding light are not allowed to start- up.	0÷255min	1		Pr2
REGULATION	AC	Anti-short cycle delay.	0÷30min	4		Pr1
REGULATION	Ac1	Delay start-up of second compressor.	0÷255sec	120		
REGULATION	rtr	Percentage of the second and first probe for regulation.	0÷100	100		
REGULATION	CCt	Gast freezing mode time (minutes).	0÷23h 50min	0h 30min		Pr2
REGULATION	CCS	Set point for continuous cycle. (fast cooling/freezing)		-2	-22	
REGULATION	Con	Time interval during which the compressor is working after probe default.	0÷255min	15		Pr2
REGULATION	COF	Time interval during which the compressor is stopped due to probe default.	0÷255min	15		Pr2
DISPLAY	CF	Temperature measurement unit.	ºC-ºF	ºC		Pr2
DISPLAY	rES	Resolution integer/decimal point (only if CF=ºC): in (integer)=1 ºC; de (decimal)=0,1 ºC.	in-de	De		Pr1
DISPLAY	Lod	Probe shown by display.	P1, P2, P3, 1r2	P1		Pr2
DISPLAY	rEd	Remote display: P1=Thermostat probe; P2=Evaporator probe; P3=Condenser probe; 1r2=P1-P2	P1, P2, P3, 1r2	P1		Pr2
DISPLAY	dLy	Display delay.		0		Pr2
DISPLAY	dtr	Percentage of P1-P2 for visualization by display.	1÷99	50		Pr2
DEFROST	tdF	Defrost type. (DO NOT MODIFY) rE=electrical heater; rT=off time; in=hot gas injection.	rE-rT-in	In		Pr1
DEFROST	dFP	Probe selection defrost.	P1-P2-P3-1r2	P2		
DEFROST	dtE	Defrosting end temperature.	-50,0÷110,0 ºC	20,0		Pr1
DEFROST	IdF	Interval between defrosting cycles.	1÷120 h	3 h		Pr1
DEFROST	MdF	Maximum defrosting length.	0÷255 min	20	30	Pr1
DEFROST	dSd	Defrosting start delay.	0÷99 min	0		Pr2
DEFROST	dFd	Display during defrost: Rt=real temperature; it=last recorded temperature; Set=set point; dEF="dEF" message.	rt-it-Set-dEF-dEG	it		Pr2
DEFROST	dAd	Delay after defrosting to display cold room temperature.	0÷255min	15		Pr2
DEFROST	Fdt	Time from defrosting end to compressor starting-up (draining time).	0÷60 min	2		Pr2
DEFROST	dPO	Displayed if defrosting after starting-up.	n-y	n		Pr2
DEFROST	dAF	Defrost delay after fast freezing.	0÷23h 50min	2,0h 0min		Pr2
FANS	FnC	Fans operating mode: With compressor ©/ always on (O) / during defrosting (y=yes / n=no).	C-n, C-y, O-n, O-y	C-n		Pr2
FANS	Fnd	Fans operation delay after defrosting.	0÷255min	3	4	Pr2
FANS	FCt	Temperature differential to avoid fan short cycles.	0÷50ºC	0		
FANS	FSt	Fans stop temperature.	-50,0÷110,0ºC	10	0	Pr2
FANS	Fon	Fans ON time with compressor OFF.	0÷15min	0		Pr2
FANS	FoF	Fans OFF with compressor OFF.	0÷15min	0		Pr2
FANS	FAP	Probe selection for fan management.	nP-P1-P2-P3-P4	P2		Pr2
AUXILIAR	ACH	Kind of regulation for auxiliary relay.	CL÷Ht	CL		Pr2
AUXILIAR	SAA	Set point for auxiliary key.	-55,0ºC÷15,0ºC	0		Pr2
AUXILIAR	SHy	Differential for auxiliary output.	0,1÷25,5ºC	2		Pr2
AUXILIAR	ArP	Probe selection for auxiliary.	nP-P1-P2-P3-P4	nP		Pr2
AUXILIAR	Sdd	Auxiliary relay off during defrost.	yes÷no	no		Pr2
ALARMS	ALP	Probe selection for temperature alarms.	nP-P1-P2-P3-P4	P1		Pr2
ALARMS	ALC	Temperature alarm configuration (ALU and ALL): rE=relative; Ab=absolute.	rE-Ab	rE		Pr2
ALARMS	ALU	Differential related to setpoint for maximum temperature alarm.	rE: -50,0÷110,0ºC Ab: 0,0÷50,0ºC	5,0		Pr1
ALARMS	ALL	Differential related to setpoint for minimum temperature alarm.	rE: -50,0÷110,0ºC Ab: 0,0÷50,0ºC	5,0		Pr1
ALARMS	AFH	Temperature alarm and fan differential.	0,1÷25,5ºC	2,0		Pr2
ALARMS	ALd	Temperature alarm delay.	0÷255min	0		Pr2
ALARMS	dAO	Delay of temperature alarm after start-up.	0÷23h 50min	1h 0min		Pr2
ALARMS	AP2	Probe selection for temperature alarm of condenser.	nP-P1-P2-P3-P4	P4		
ALARMS	AL2	Condenser low temperature alarm.	-55,0÷150ºC	-40		Pr2
ALARMS	Au2	Condenser high temperature alarm.	-55,0÷150ºC	65		Pr2
ALARMS	Ah2	Differential for temperature condenser alarm recovery.	0,1÷25,50ºC	5		Pr2
ALARMS	Ad2	Condenser temperature alarm delay.	0÷255min	1		Pr2
ALARMS	dA2	Condenser temperature alarm exclusion at start-up	0÷23h 50min	1h 30min		Pr2
ALARMS	bLL	Compressor off with low temperature alarm of condenser.	yes÷no	no		Pr2
ALARMS	AC2	Compressor off with high temperature alarm of condenser.	yes÷no	yes		Pr2
ALARMS	tbA	Alarm signal silencing by pressing a key.	n-y	n		Pr2

ALARMS	oA3	Third relay configuration (auxiliary relay):
		deF=do not select; FAN=do not select: Alr=alarm; Lig=room light; AUS=Aux;
		onF=always on; dB=neutral zone; cP2=second compressor;
		dF2=do not select.
			dEF-FAN-Alr-Lig-AUS-onF-dB-CP2-dF2-HES	Lig		Pr2

ALARMS	AOP	Alarm relay polarity.	CL-OP	OP		Pr2
DIGITAL INPUTS	i1P	Door microswitch polarity: CL=Closed (the digital input is activated by closing the contact). OP=Opened (the digital input is activated by opening the contact).	CL-OP	OP		Pr2
DIGITAL INPUTS	i1F	Digital input configuration: PAL=pressure switch alarm.	EAL, bAL, PAL, dFr, AUS, Es, onF	PAL		Pr2
DIGITAL INPUTS	did	Time interval to calculate the number of the pressure switch activation.	0÷255min	60		Pr2
DIGITAL INPUTS	iP2	Second digital input polarity: CL=Closed (the digital input is activated by closing the contact). OP=Opened (the digital input is activated by opening the contact).	CL-OP	OP		Pr2
DIGITAL INPUTS	i2F	Digital input 2 configuration: EAL=external alarm; bAL=serious alarm.	EAL-bAL-PAL-dor-dEF-AUS-htr-FAN-ES-onF-HdF	dor		Pr2
DIGITAL INPUTS	d2d	Second digital input alarm delay.	0÷255min	15		Pr2
DIGITAL INPUTS	nPS	Number of activation of the pressure switch, during the "did" interval, before signalling the alarm event "PAL".	0÷15	8		Pr2
DIGITAL INPUTS	odc	Compressor status when open door: CPr=Compressor off; Fan=Fan off; F_C=Compressor and fan off.	no-Fan-CPr-F_C	F_C		Pr2
DIGITAL INPUTS	rrd	Outputs restart after door open alarm.	n-y	y		Pr2
DIGITAL INPUTS	HES	Delta temperature during Energy Saving cycle.	-30,0÷30,0ºC	2		Pr2
OTHERS	Adr	Serial address: identifies the instrument address when connected to a ModBUS compatible monitoring system.	1÷247	1		Pr1
OTHERS	rEL	Software version.	Readable only			Pr2
OTHERS	Ptb	Dixell map code.	Readable only			Pr2
OTHERS	pbC	Type of probes	PTC-NTC	NTC		Pr1
OTHERS	onF	ON/OFF key enabling: nu=disables; OFF=enabled; ES=not set	No-OFF-ES	OFF		Pr1