EV3X21

Every digital thermostat for positive temperature refrigeration applications.
Static defrost by stoping the compressor.
Display protection: IP 65
Power supply: 230 VAC, 2 VA
Working temperature: 0°C to 55°C
Digital output: 1 relay 16A resistive @240 VAC
The maximum current allowed on the load is 10 A

Programming procedure

Unlock the controller to begin programming

Temperature Set Point

Press "**SET**" button once, ✳ will flash

Press ▼ or ▲ to set the desired value

Press "**SET**" button to confirm

All parameters

Press "**SET**" for 4 seconds
"**PA**" will be displayed
Press "**SET**"
Press ▼ Or ▲ to select password "**-19**"
Press "**SET**"
"**SP**" will be displayed (first parameter on the list)
Press ▼ Or ▲ to select the parameter

To modify selected parameter

Press "**SET**"
Press ▼ Or ▲ to set the desired value
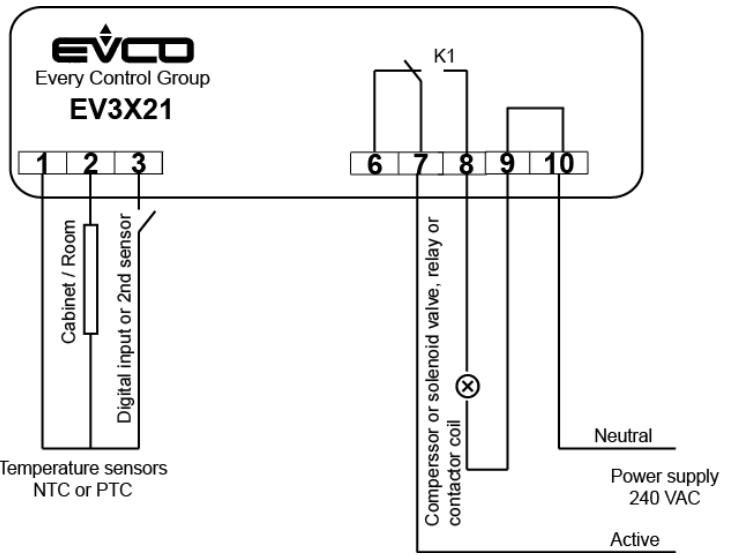Press "**SET**" to confirm

To confirm all changes

Press ▼ And ▲ for 4 seconds
or leave the controller untouched for approx. 1 min.
Switch the power supply "**OFF/ON**" after the modification of the parameters

To lock or unlock the display:

Loc	To lock: do not operate for 30 s
UnL	To unlock: press any button for 2 s, display will show "**UnL**"

Common Parameters

	Min.	Max.	unit	def	
SP	r1	r2	°C	0	Temperature set point
CA I	-25	25	°C	0	Sensor calibration
P0	0	1		1	Kind of probe, 0=PTC 1=NTC
P1	0	1		1	Decimal point
P2	0	1		0	Unit of measure temp. 0 =°C 1 =°F
r 0	0.1	15	°C/°F	2	Differential
r 1	-99	r 2	°C/°F	-40	Minimum set point
r 2	r 1	99	°C/°F	50	Maximum set point
C 0	0	240	min	0	Delay on power up
C 2	0	240	min	3	Compressor short cycle protection
d 0	0	99	Hour	8	Defrost interval (0 = defrost disabled)
d 3	0	99	Min	30	Defrost duration (0 = defrost disabled)
d 4	0	1		0	Defrost on power up (1 = Yes)
d 5	0	99	min	0	Defrost delay if d 4 = 1
d 6	0	1		1	Override display during defrost 2 = "dEF" 1 = Yes 0 = room temperature
r5	0	1		0	0 = cooling, 1 = heating
r12	0	1		1	0 = asymmetric, 1 = symmetric
HE3	0	240	min	2	0 = deactivate power savings mode

❖ During the normal operation the controller shows the cabinet temperature

❖ To activate the defrost manually press and hold ▲ for 4 seconds

❖ "**Pr I**" error message, sensor damaged, disconnected or wrong kind, check "P0"

We recommend the following settings:
❖ r12 = 0
❖ HE3 = 0

	LED ON	LED Flashes
✳	compressor is running	compressor delay "C0", "C2" or modification of the **Set Point**
❄	defrost in progress	defrost delay or dripping time "C0", "C2", "d7"
◑	Energy saving LED	N/A