FK 203T

Every digital controller for low temperature refrigeration applications.
Defrost and fan management.

Programming procedure.

Set point

Press And hold [set] And ⬆ Or ⬇
to set the desired value

All parameters

Press ⬆ And ⬇ for 4 seconds

P A will be displayed

Press And hold [set] And ⬆ Or ⬇
to select password -19
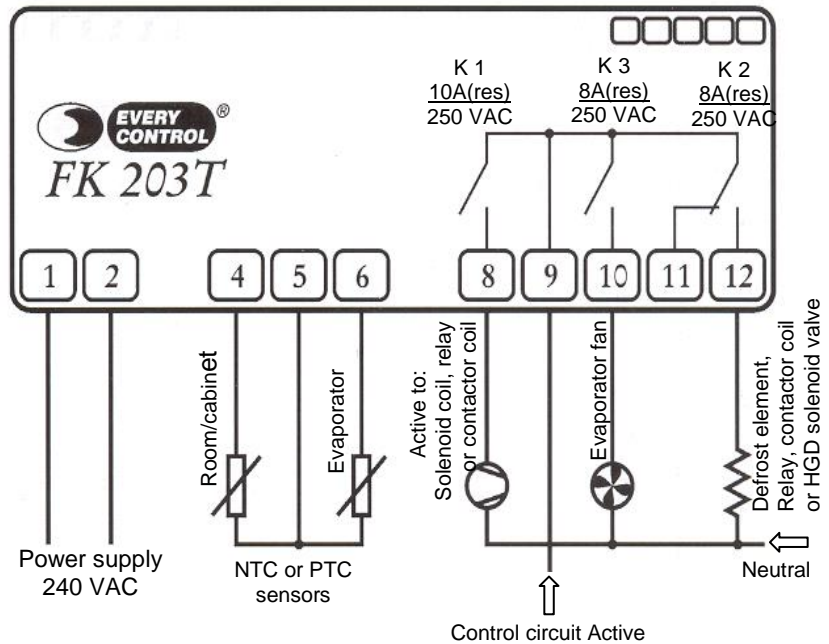
Press ⬆ And ⬇ for 4 seconds

⌐⊔ **will be displayed**

Press ⬆ Or ⬇ to select the parameter

To modify selected parameter

Press And hold [set] And ⬆ Or ⬇
to set the desired value

To confirm all changes

Press ⬆ And ⬇ for 4 seconds or leave
the controller untouched for approx. 1 min.

**Manual defrost can be activated by pressing
❄ Button for 4 seconds.**
Possible only if evaporator temperature is below parameter (d2)

	LED ON	LED Flashes
☐	compressor is running	compressor delay (C0, C1, C2, C4)
❄	defrost in progress	defrost delay or dripping time (C0, C1, C2, C4)
⊚	evaporator fan runs	after dripping delay (F 5)

Error messages

CODE	REASON	REMEDIES	EFECTS
E 2	There is the corruption of the configuration data of the memory	Switch the power OFF wait few seconds, switch ON, if the alarm won't disappears the controller has to be change	There is no access to the setting procedure, all outputs are OFF
E 0	Room / cabinet sensor damaged, poor connection, wrong type of sensor, the cabinet temperature is outside the limits allowed by the working range of the controller	Check parameter ⌐⊔, check the connection, check the temperature next to sensor	The compressor will work in accordance with parameters C5 & C6 ,if the defrost in running will be immediately terminated, the defrost will never be activated
E 1	Evaporator / defrost sensor damaged, poor connection, wrong type of sensor, the evaporator temperature is outside the limits allowed by the working range of the controller	Check parameter ⌐⊔, check the connection, check the temperature next to sensor	Evaporator fan will be managed by settings of parameters F4, F5, F7, defrost will be terminated by time (parameter d3)

FK 203T parameters

	Min.	Max.	unit	def	
⌐0	1	4		1	Type of sensor, 1=PTC, 3=NTC
⌐1	-55	99	°C	0	Room/cabinet sensor calibration
⌐6	-55	99	°C	0	Evaporator/defrost sensor calibration
⌐8	0	1		1	0 = °F, 1 = °C
⌐A	0	1		1	Evaporator/defrost sensor presence 1 = YES
r 0	1	15	°C	2	Differential
r 1	-55	r 2	°C	-50	Minimum set point
r 2	r 1	99	°C	50	Maximum set point
C 0	0	240	min	0	Delay on power up
C 1	0	240	min	5	Minimum time between two compressors starts
C 2	0	240	min	3	Compressor short cycle protection
C 4	0	1		0	Fixed delay since the compress. gets ON & OFF (1=YES, for 3 s)
C 5	1	240	min	10	1 complete cycle ON + OFF in the event of cabinet/room sensor failure
C 6	0	100	%	50	Percentage of C5 the compressor is ON
d 0	0	99	H	8	Defrost interval (0 = defrost disabled)
d 1	0	1		0	0 = electric, 1 = hot gas defrost
d 2	-55	99	°C	2	Defrost termination temperature
d 3	0	99	min	30	Maximum defrost duration
d 4	0	1		0	Defrost activation on power up (1 = YES)
d 5	0	99	min	0	Defrost delay after power up (if d4 = 1)

	Min.	Max.	unit	def	
d 6	0	1		1	Override display during defrost (1 = YES)
d 7	0	15	min	2	Dripping time
d 9	0	1		0	Defrost has priority over compressor protection (1= YES)
d A			°C		Evaporator/defrost sensor reading
d P	0	99	min	0	Minimum compressor run before hot gas defrost activation (d1=1)
A 0	1	15	°C	2	Alarm differential
A 1	-55	0	°C	-10	Low temperature alarm (deviation from set point)
A 2	0	99	°C	10	High temperature alarm (deviation from set point)
A 3	0	240	min	120	Delay of alarm activation after power up
A 6	0	240	min	5	Duration of alarm
A 7	0	240	min	15	Delay of alarm after the last completion of defrost cycle
F 1	-55	99	°C	-1	Evaporator fan stop temperature
F 2	1	15	°C	2	Differential of F1
F 4	0	2		0	Stop fan during defrost (0 = Yes, 1 = No, 2 = in accordance with F7)
F 5	0	15	min	2	After dripping evaporator fan delay
F 6	0	1		0	0 = F1, 1 = (cabinet temp – F1)
F 7	0	4		4	Fan management (0 = OFF, 1 = ON, 2 = with compressor, 3 = F1 & F2 4 = compressor ON → fan F1 & F2, compressor OFF fan →OFF
L 1	1	15		1	Controller ID address
L 2	0	7		6	Controller group
L 4	0	3		1	Network baud rate (0 = 1200, 1=2400, 2 = 4800, 3 = 9600)