

## LIST OF PARAMETERS

- Hy Differential:** (0,2°C ÷ 12,0°C / 2°F ÷120°F) Intervention differential for set point, always positive. Compressor Cut IN is Set Point Plus Differential (Hy). Compressor Cut OUT is when the temperature reaches the set point.
- LS Minimum set point:** (-57°C-SET/-57°F-SET): Sets the minimum acceptable value for the set point.
- US Maximum set point:** (SET÷99°C/SET÷196°F). Set the maximum acceptable value for set point.
- AC Anti-short cycle delay:** (0÷30 min) minimum interval between the compressor stop and the following restart.
- ALC Temperature alarms configuration:** (0 = temperature alarm are related to SET, alarm relay and buzzer works in parallel; 1 = temperature alarms are referred to absolute values; alarm relay and buzzer work in parallel; 2= referred to set, alarm relay is active when the alarm is active; 3= absolute temperature, alarm relay is active when the alarm is active) determines if temperature alarms are referred to set point or if alarms are referred to absolute temperatures.
- ALU MAXIMUM temperature alarm:** (with **ALC** = 0 or 2, from 0 to 50°C/90°F; with **ALC** = 1 or 3, from ALL÷99°C/196°F) when this temperature is reached the alarm is enabled, after the ALd delay time.
- ALL Minimum temperature alarm:** (with **ALC** = 0 or 2, from 0 to 50°C/90°F; with **ALC** = 1 or 3, from -57°C/°F to ALU) when this temperature is reached the alarm is enabled, after the ALd delay time.
- ALd Temperature alarm delay:** (0÷120 min) time interval between the detection of an alarm condition and alarm signalling.
- dAO Delay of temperature alarm at startup:** (from 0 min to 720 min; res. 10min) time interval between the detection of the temperature alarm condition after instrument power on and alarm signalling.
- OdS Outputs activation delay at start up:** (0÷120min) This function is enabled at the initial start up of the instrument and inhibits any output activation for the period of time set in the parameter.
- CCt Compressor ON time during fast freezing:** (0÷990min; res. 10 min) allows to set the length of the continuous cycle. Can be used, for instance, when the room is filled with new products.
- dAF Defrost delay after fast freezing:** (with tdF=0 or 1: 0÷120min; with tdF=2 or 3: 0÷120sec) time interval between the end of the fast freezing and the following defrost related to it.
- ldF Interval between defrost cycles:** (with tdF=0 or 1: 0÷120h; with tdF=2 or 3: 0÷120min) Determines the time interval between the beginning of two defrost cycles.
- dSd Start defrost delay:**(with tdF=0 or 1: 0÷59min; with tdF=2 or 3: 0÷59sec) This is useful when different defrost start times are necessary to avoid overloading the plant.
- MdF (Maximum) length for defrost:**(with tdF=0 or 1: 0÷120min; with tdF=2 or 3: 0÷120sec) When **EdF** = 0, (not evaporator probe: timed defrost) it sets the defrost duration, when **EdF** = 1 (defrost end based on temperature) it sets the maximum length for defrost.
- dtE Defrost termination temperature:** (-57 ÷ 99°C/-57÷196°F) (Enabled only when EdF=1) sets the temperature measured by the evaporator probe, which causes the end of defrost.
- dFd Temperature displayed during defrost:** (0 = real temperature; 1 = temperature at defrost start; 2 = set point; 3 = "dEF" label)
- dAd MAX display delay after defrost:** (0÷120 min). Sets the maximum time between the end of defrost and the restarting of the real room temperature display.
- tdF Defrost type:** (0 = electrical heater, long time; 1 = hot gas, long time; 2=OFF compressor, short time; 3= ON compressor, short time)
- EdF Evaporator probe presence:** (0 = Not present: timed defrost end; 1=present: defrost end based on temperature)
- Fdt Drain time:** (with tdF=0 or 1: 0÷120min; with tdF=2 or 3: 0÷120sec) time interval between reaching defrost termination temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.
- dPO First defrost after startup:** (0 = Immediately; 1 = after the ldF time)
- FnC Fan operating mode:** (0 = runs with the compressor, OFF during defrost; 1 = continuous mode, OFF during defrost; 2 = runs with the compressor, ON during defrost; 3 = continuous mode, ON during defrost; 4 = fan relay is used as 2° compressor output)
- FSt Fan stop temperature:** (-57÷99°C/196°F) setting of temperature, detected by evaporator probe, above which the fan is always OFF.
- Fnd Fan delay after defrost:** (with tdF=0 or 1: 0÷120min; with tdF=2 or 3: 0÷120sec) The time interval between end of defrost and evaporator fans start.
- Ot Thermostat probe calibration:** (-12.0÷12.0°C; -120÷120°F) allows to adjust possible offset of the thermostat probe.

- OE Evaporator probe calibration:** (-12.0÷12.0°C; -120÷120°F) allows to adjust possible offsets of the evaporator probe.
- CF Temperature measurement unit:** 0 = Celsius; 1 = Fahrenheit.  
WARNING: When the measurement unit is changed the SET point and the values of the parameters Hy, LS, US, ALU, ALL, dtE, FSt, Ot and OE have to be modified
- COn Compressor ON time with faulty probe** (0÷120 min) time during which the compressor is active in case of faulty thermostat probe. With COn=0 compressor is always OFF.
- COF Compressor OFF time with faulty probe** (0÷120 min) time during which the compressor is off in case of faulty thermostat probe. With COF=0 compressor is always active.