

- Hy Differential** : (0.3 - 50.0 units). Determines the spread of the bandwidth above or below the target set point. The type of regulation required: direct (cooling) or inverse (heating) can be selected at the configuration stage using parameter "CH".
- LS Minimum set point**: (-80.0 to SET POINT): Sets the minimum value that can be input for the set point, to prevent the end user from setting incorrect temperature values.
- US Maximum set point**: (from SET POINT to 900.0). Sets the maximum acceptable value for set point.
- ALU Upper limit alarm**: (from 0.5 to 300 units relative to set point). When the value SET+ALU is reached the alarm is enabled, (possibly after the **ALd** delay time)
- ALL Lower limit alarm**: (from -300.0 to -0.5 units relative to set point). When the value SET+ALL (negative) is reached the alarm is enabled, (possibly after the **ALd** delay time).
- ALd Alarm delay**: (0 to 255 min) time interval between the detection of an alarm condition and alarm signalling.
- Ot Probe calibration**: (-30.0 to 30.0 units) allows correction of probe offsets.
- OdS Regulation delay on start-up**: (0 to 255 min) on switching ON the instrument starts working after the time delay imposed in this parameter.
- dSC Start of scale with 4÷20mA input: (-80.0÷FSC)** Adjustment of read out corresponding to 4mA input signal. Only for a current input.
- FSC End of scale with 4÷20mA input**: (dSC÷900.0) Adjustment of read out corresponding to 20mA input signal. Only for a current input.
- Ad1..Ad2 RS485 Serial address**: identifies the instruments within a control or supervising system.
- dIC Digital input configuration**: four operating modes can be selected:
- 0 = instrument OFF**: the buzzer and alarm output are enabled, the others outputs are placed in OFF position, the message "OFF" is displayed.
 - 1 = compressor alarm**: the buzzer and the alarm output are enabled, the others outputs are placed in OFF position, the flashing message "CAL" is displayed.
 - 2 = generic alarm**: the buzzer and the alarm output are enabled, the flashing message "EA" is displayed, the other outputs are not modified;
 - 3 = Alarm mute**: the buzzer and alarm output are disabled, the alarm message is displayed until the alarm condition lasts. Disabling can be inhibited by setting "**tbA**" to 0 in which case the alarm relay remains active as long as the alarm condition lasts.
- dld Digital input delay**: (0 - 255 secs.) delay between receipt of digital input and activation of function requested.
- n°C Number of stages**: (0 - 4 for XC440C and XC440D; 0 - 6 for XC460D) Sets the number of stages available.
- AC Stage control method**: (0 - 2 up to four stages; 0 - 1 from five to six stages) selects the method for activating the stages:
- 0 = sequential step control
 - 1 = sequential step control with automatic rotation
 - 2 = control of uneven stages (available up to 4 stages)
- CP1 Percentage of stage capacity 1**: (1 - 99) percentage of first stage in relation to the total capacity.
- CP2 Percentage of stage capacity 2**: (1 - 99) percentage of second stage in relation to the total capacity.
- CP3 Percentage of stage capacity 3**: (1 - 99) percentage of third stage in relation to the total capacity.
- CP4 Percentage of stage capacity 4**: (1 - 99) percentage of fourth stage in relation to the total capacity.
- Cd1 Minimum time delay between switching ON of 2 different stages**:
(0 - 250 secs.) prevents too rapid start-up between stages.
- Cd2 Minimum time delay between switching OFF of 2 different stages**:
(0 - 250 secs.) prevents too rapid stopping between stages.
- Cd3 Minimum time delay between switching ON of 2 successive cycles**: (0 - 250 secs.) prevents too rapid start up of successive cycles (a cycle ends when all stages are OFF). Valid only when **AC = 0 or 1**.
- Cd4 Minimum time a stage stays switched ON**: (0 - 250 secs.) minimum time a stage can remain ON.
- CPd Anti-short cycle protection**: (0.0 to 30.0 mins; resolution 10s) minimum time delay between a switch OFF and the next switch ON of the same compressor relay output.
- NOTE**: with AC=1 (sequential step control with automatic rotation) after a switching OFF all the relays the time set in this parameter has to pass before starting a new cycle.
- HrC Hours run time check**: (0 - 9990 hours, resolution 10 hours, setting the hours to 0 disables this function) Sets the run hours for a stage after which a "maintenance due" signal is generated.
- IAC Excessive stage run time elimination**: (0.0 - 25.3 hours; resolution 30 mins.; with 0.0 the function is disabled) Determines the maximum time a stage can remain ON without the switching ON or OFF of any other stages. At the end of this set time the control band widths (differentials) are recalculated in accordance with the formula in para. 3.3.
- Ptb Parameter table**: (read only) shows the factory default settings.
- rEL Software release**: (read only) shows the software release.
- rES Resolution**: (0 = 1 unit; 1 = 0.1 unit) sets decimal point display. This is not possible with Fahrenheit degrees.
- NOTE**: When the display is changed from "with decimal point" to "without decimal point" check the parameters "HY", "ALU" and "ALL".

CF Temperature measurement unit: 0 = Celsius; 1 = Fahrenheit.

CH Type of Regulation: CH = 0 direct action (cooling, decreasing pressure); CH = 1 inverse action (heating, increasing pressure).

tbA Buzzer and alarm relay silencing: (0 = mute disabled, 1 = mute enabled).