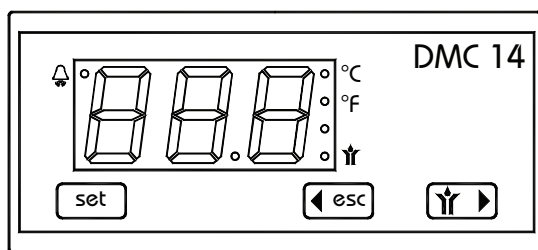


DMC 14

DMC14 ELECTRONIC INSTRUMENT (AIR DRYER CONTROLLER)



- Button - access to set-up.
- Button - exit to set-up / value decrement.
- Button - condensate drain test / value increment.
- LED - dryer in alarm condition.
- LED - it shows the current temperature scale (°C).
- LED - it shows the current temperature scale (°F).
- LED - condensate drain solenoid valve activated.

The DMC14 controller performs a double function : it shows the current operating DewPoint temperature through the alphanumeric display, that is measured by a probe located at the end of the evaporator; it also controls the functioning of condensate drain solenoid valve through the cyclic electronic timer.

The LED shows any alarm condition, it can happen when :

- pressure DewPoint is too high;
- pressure DewPoint is too low;
- the probe is faulty.

If the probe is faulty, the instrument also shows "PF" message (Probe Failure), and alarm activation is immediate. In case of "DewPoint too low" condition (ASL parameter, that is fix and equal to -2°C), the alarm signal is delayed of a fix time (AdL parameter) equal to 30 sec, while for "DewPoint too high" condition the value (ASH parameter) is set by the user and the signal is activated with AdH delay time, that can be also set up by the operator (the instrument is already adjusted during final test of the dryer, please see following values). When DewPoint returns into operating temperature (set range), the alarm condition is deactivated.

DMC14 allows also remote annunciation of this alarm condition of the dryer :

- with dryer off or in alarm conditions there is no voltage from terminal 4 and 9 of electronic instrument (please also see electric drawings into the attachments);
- whereas, with dryer on and correct operating DewPoint, there is voltage from terminal 4 and 9 of electronic instrument (please also see electric drawings into the attachments).

OPERATION - After dryer starting, the electronic controller displays current operating DewPoint : it shows the measured temperature in Celsius degrees (• °C) with a 0.5°C resolution, or in Fahrenheit degrees (• °F) with a 1°F resolution.

The condensate drain solenoid valve is activated for 2 seconds (Ton) - LED (•) on - each minute (ToF), if standard setting. To perform the manual test for the condensate drain, press the button.

SET-UP (PROGRAMMING)

To access the set-up, keep pressed simultaneously both and button for at least 5 seconds. In this way **programming operation will be activated** and the controller display shows the first parameter that can be set (Ton).

After that, by pressing button the display shows the value set for that parameter. If the value is correct press button to confirm it and to give access on following parameters. To change the value of selected parameter, must be used and button, respectively to decrease or increase the value. All parameters that can be modified are indicated in following table :

Display	Description	Value range	Set value	Equal to
Ton	Activation time of condensate solenoid valve	01 ... 20	02	2 sec
ToF	Pause time of condensate solenoid valve	01 ... 20	01	1 min
ASH	"DewPoint too high" temperature alarm	0.0 ... 20.0	20	20°C
AdH	Delay time before ASH alarm activation	00 ... 20	20	20 min
SCL	Temperature scale	°C ... °F	°C	°Celsius
Fix parameter :		ASL ("DewPoint too low" alarm) = -2°C		
		AdL (signal delay) = 30 sec		

It is possible to exit from set-up condition in any moment, by pressing simultaneously both and button. If any operations are not made during 30 seconds, the controller exits automatically from programming operation.

- ◆ **ALARM CONDITION-**
- ⇒ The LED • flashes because the DewPoint is too high – see specific point.
 - The LED • of the instrument is on or flashes to indicate alarm situations.
 - ⇒ The LED • flashes because the DewPoint is too low - see specific point.
 - ⇒ The LED • flashes because the probe is faulty or interrupted, the instrument displays the message "PF" (Probe Failure) – replace the probe.