

Cooling station controller with management of electronic proportional expansion valve (stepper valve)

DIN rail housing, display, 24 VDC power supply, 2 relays, 1 stepper motor control, 5 PT1000 inputs, 1 0-10V input, 2 digital inputs, bus interface, clock, plug-in terminals.

The DC34D module is a controller that performs measurement, monitoring and control functions for refrigeration units equipped with electronic proportional expansion valve. Stepper motor control, directly compatible with Danfoss CCMT and Carel ExV series expansion valves, as well as with all stepper motors via a configurable generic mode (number of motor steps, speed, phase current and holding current).

The module is mounted on DIN rails.

The DC34D module can be programmed using the Teleswin supervision software or directly via the buttons on the front of the housing. The integrated display shows the values measured by the connected sensors and is used for parameter programming.

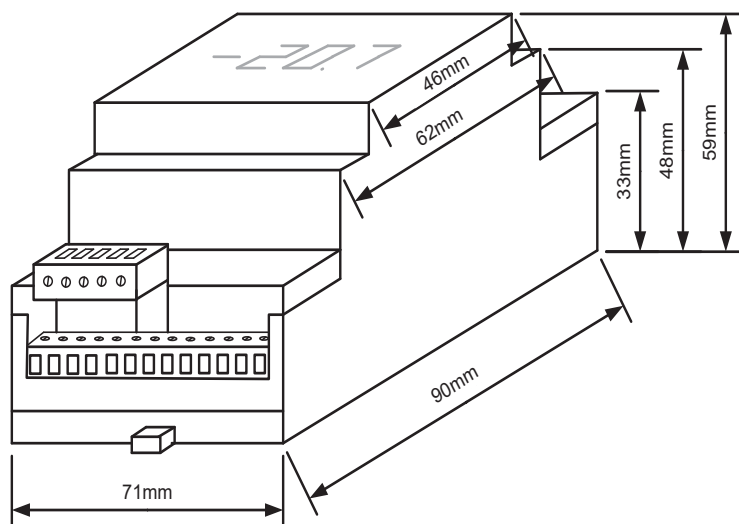


APPLICATIONS

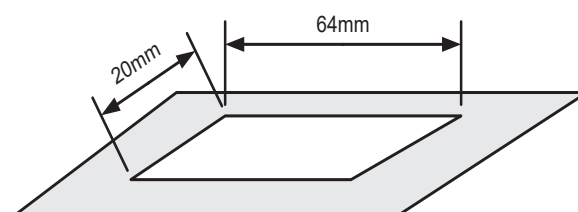
Medium temperature refrigerated units	yes
Low temperature refrigerated units	yes

DIMENSIONS

Module



Cut-out for display



FEATURES

Inputs

PT 1000	5
0-10 V	yes
Digital	2

Outputs

Relays	2
Stepper motor control	1

Others

White display	yes
Power supply	24 VDC
UPS/Battery	24 VDC
Remote monitoring bus interface	yes
Clock	yes
Electronic expansion valve	yes
Local bus for extensions	yes

TECHNICAL DATA

Power supply

Supply voltage	24 VDC
UPS/Battery	24 VDC
Maximum input power	4 W

Protection rating 1

Contamination rating 2

Overvoltage category II

Conditions of use

Temperature 0-40° C

Humidity 0-80 % (without condensation)

Breaking capacity of relays outputs inductive load 6 A 250 VAC, resistive load 10 A 250 VAC

Clock – reserve operating margin 4 days

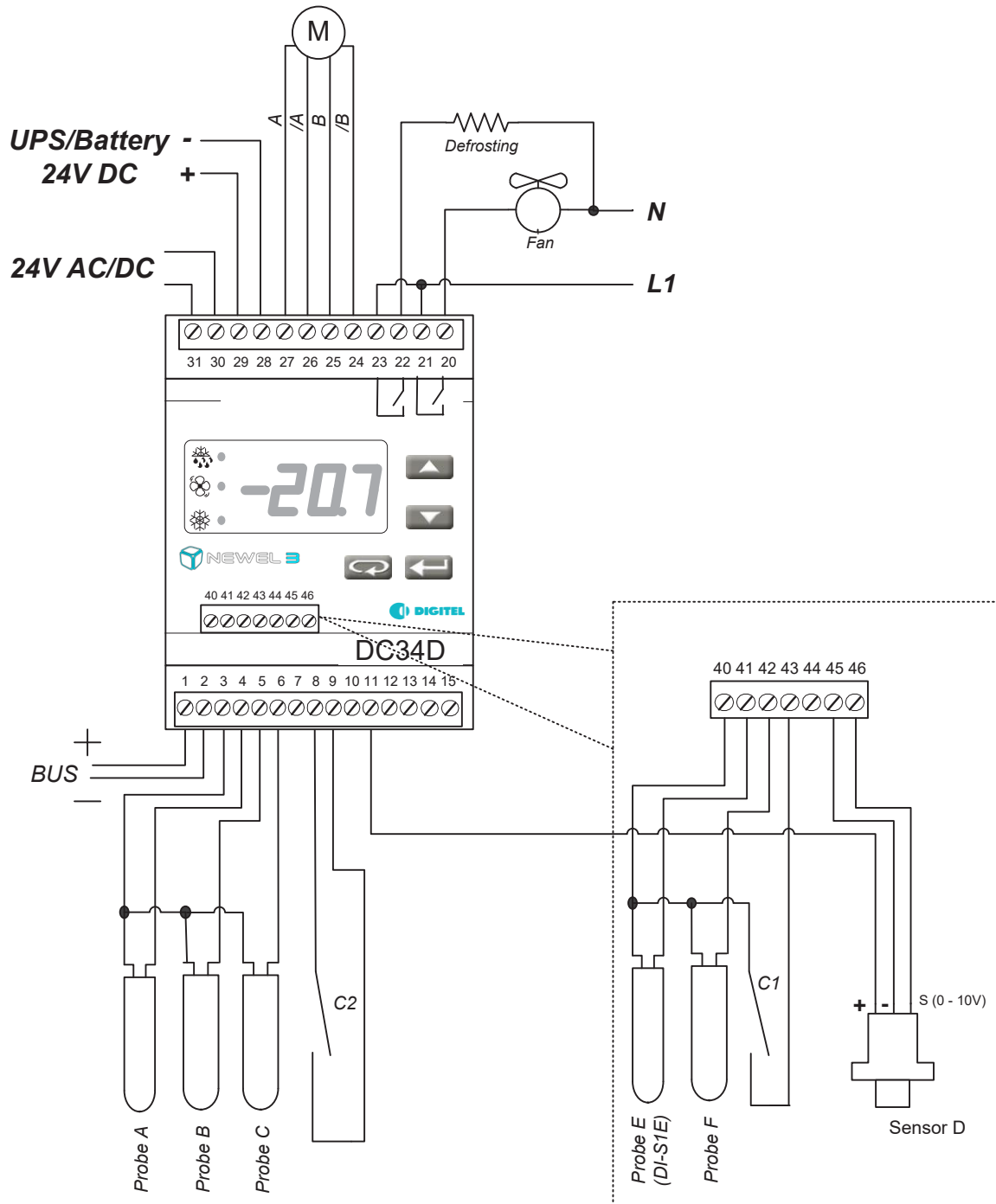
Input 0-10 V range of measurement: 0-10 V

Input 4-20 mA range of measurement: 4-20 mA

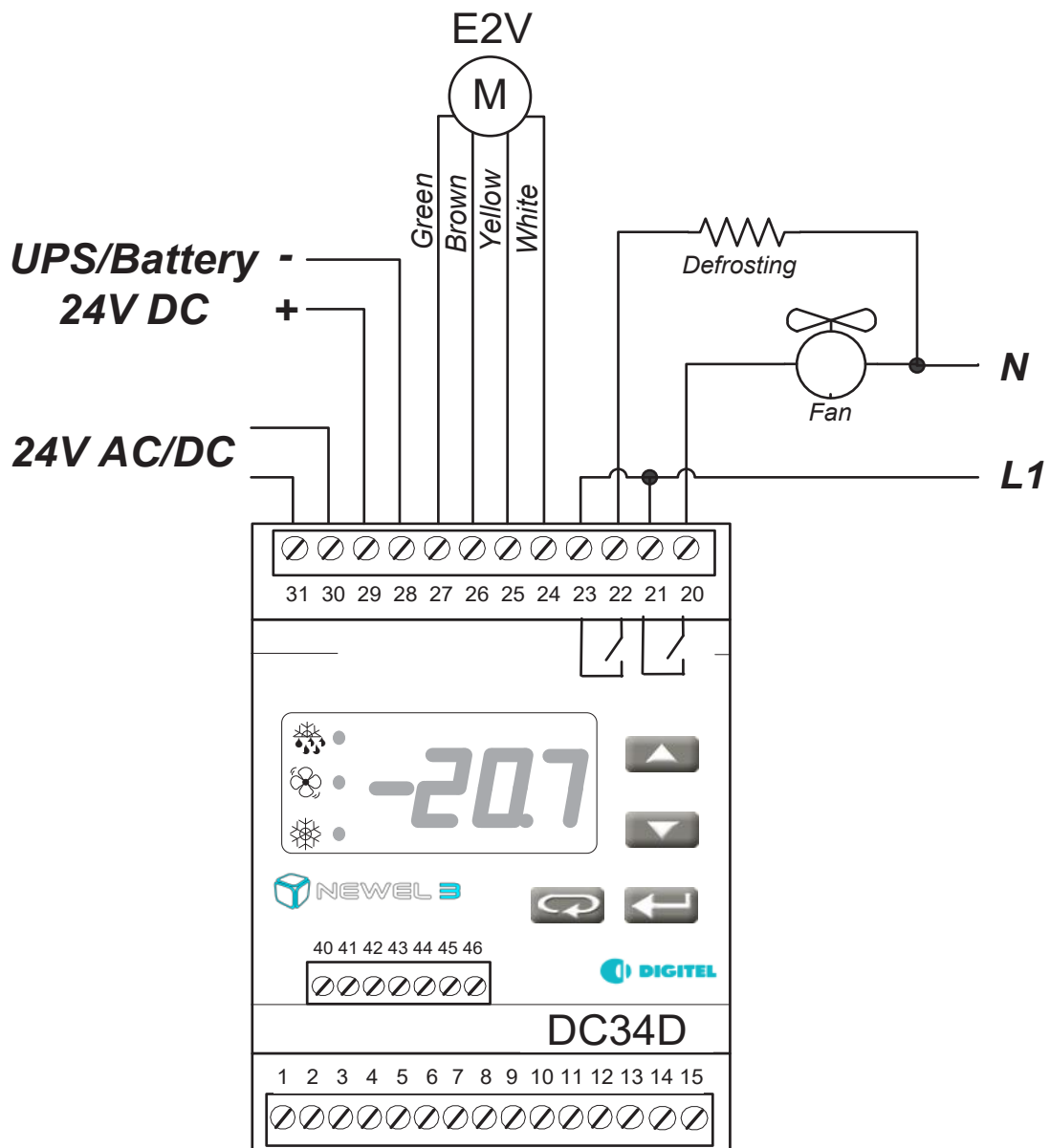
ASSEMBLY DIAGRAMS

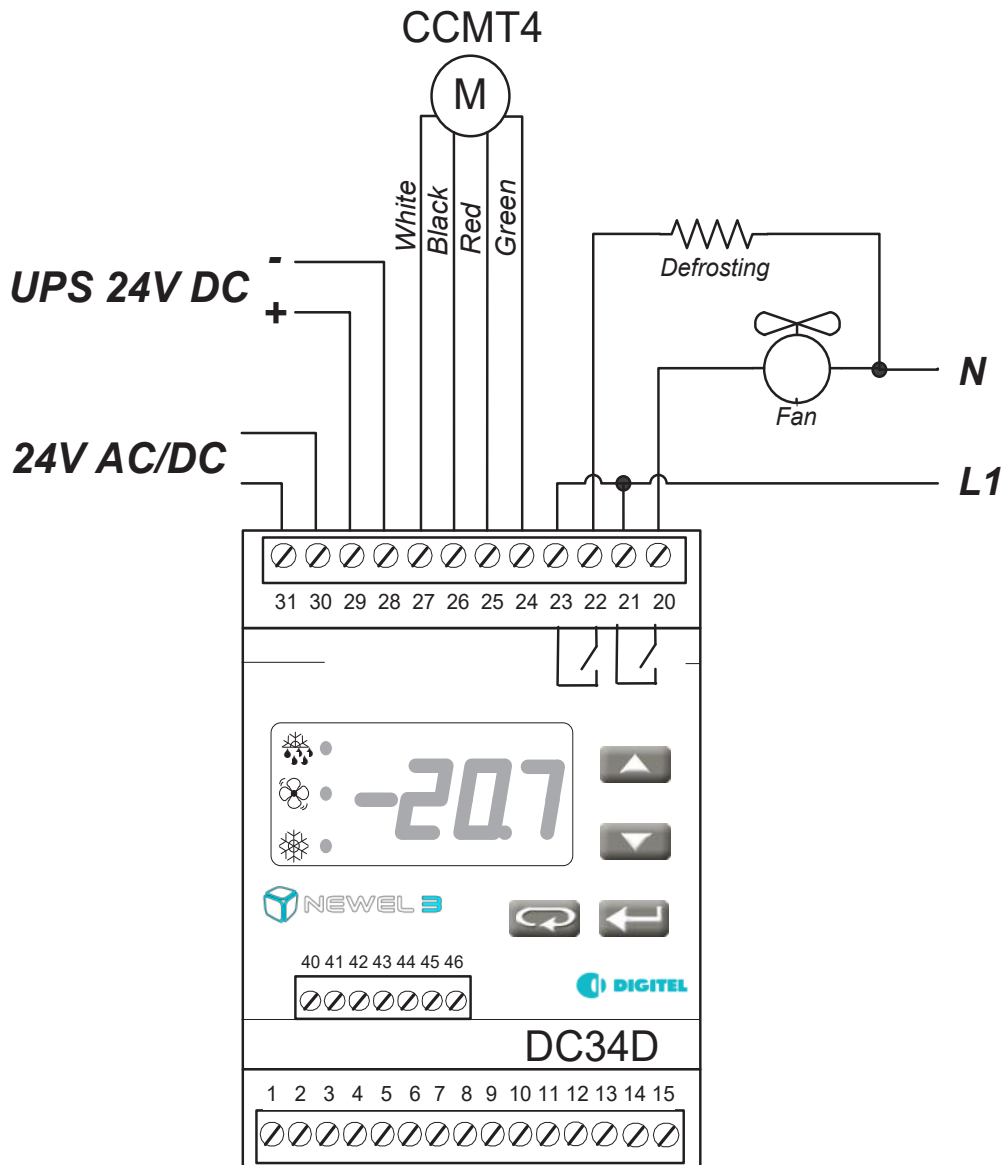
DC34D in cooling station control mode

A UPS/battery supply is required to ensure that the valve closes if the 24V AC/DC supply fails.



DC34D-E2V wiring





About us

Digitel provides high-end control, monitoring and remote management solutions for installations requiring a high degree of performance: refrigeration, heat recovery, controlled atmosphere chamber, growth chamber or special and customized installations.

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