

Controller for transcritical CO2 installations

DIN rail housing, display, 230 VAC power supply, 4 relay outputs, 2 analogue outputs, 5 PT1000 inputs, 1 0-10V input, 1 4-20 mA input, 2 digital inputs, bus interface, plug-in terminals.

The DC24TR module is a controller for transcritical CO2 systems that provides measurement, monitoring and control functions for the following applications :

- control of the air cooler, high pressure and medium pressure,
- management of the interface to the heat recovery system.

The management of transcritical CO2 installations is provided by 2 DC24TR modules. The module is mounted on DIN rails.

The DC24TR 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 programming the parameters.

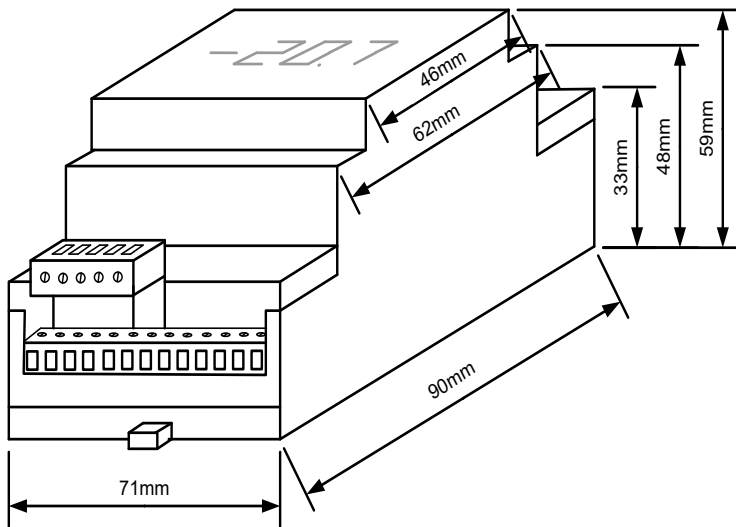


APPLICATIONS

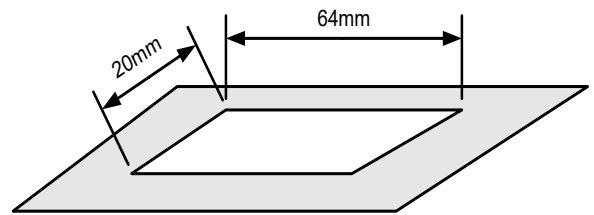
Transcritical CO2	yes
Heat recovery	yes

DIMENSIONS

Module



Cut-out for display



FEATURES

Inputs

PT 1000	0 to 5 depending on application
0-10 V	1
4-20 mA	1
Digital	2 to 7 depending on application

Outputs

Relays	4
Analogue	2

Others

White display	yes
Power supply	230 VAC
Remote monitoring bus interface	yes
Clock	yes
Electronic expansion valve	no
Local bus for extensions	yes

TECHNICAL DATA

Power supply

Supply voltage 110-250 VAC, 50-60 Hz

Maximum input power 4 W

Protection rating 1

Contamination rating 2

Oversvoltage 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

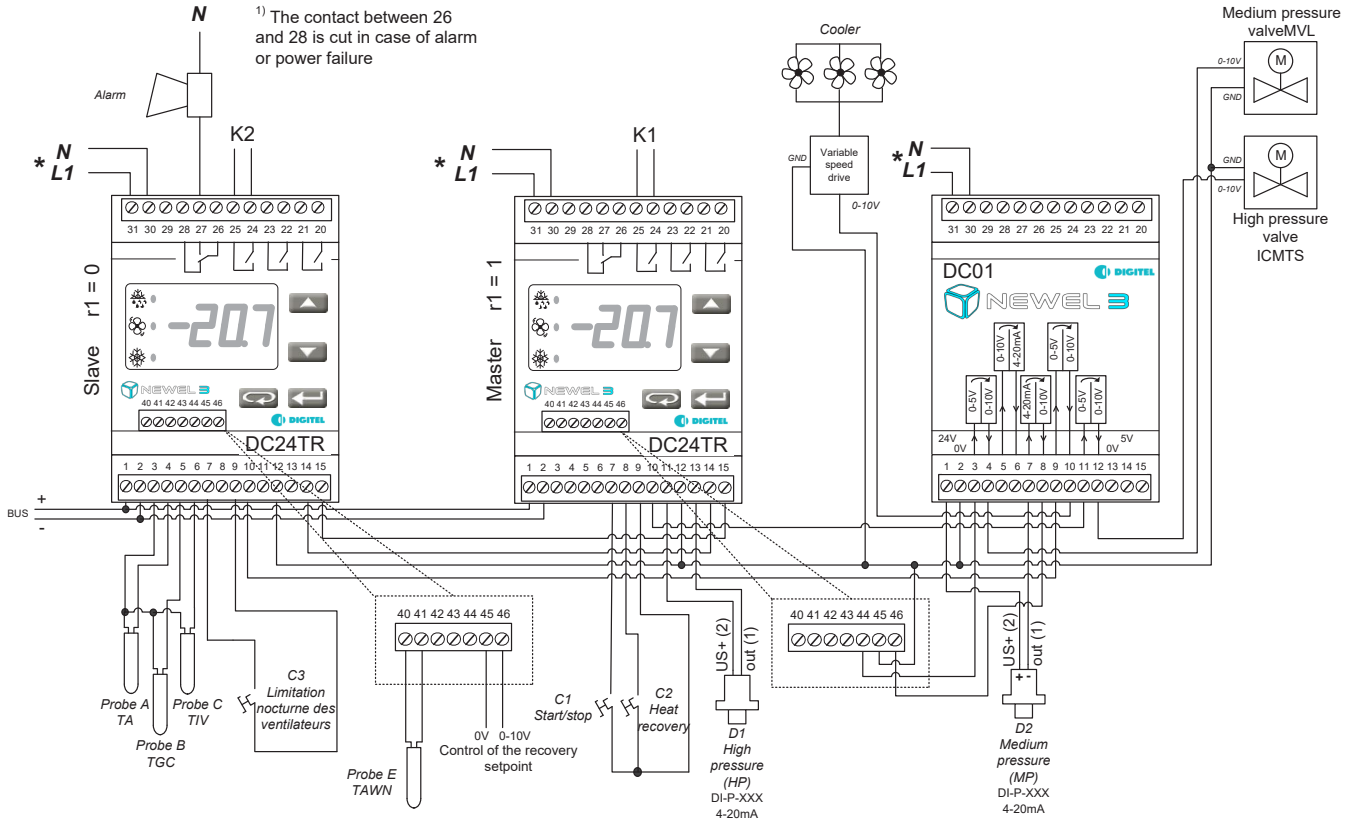
Input 0-10 V range of measurement: 0-10 V


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

ASSEMBLY DIAGRAMS

DC24TR in transcritical CO2 control mode

The management of transcritical CO2 installations is carried out by two DC24TR modules.

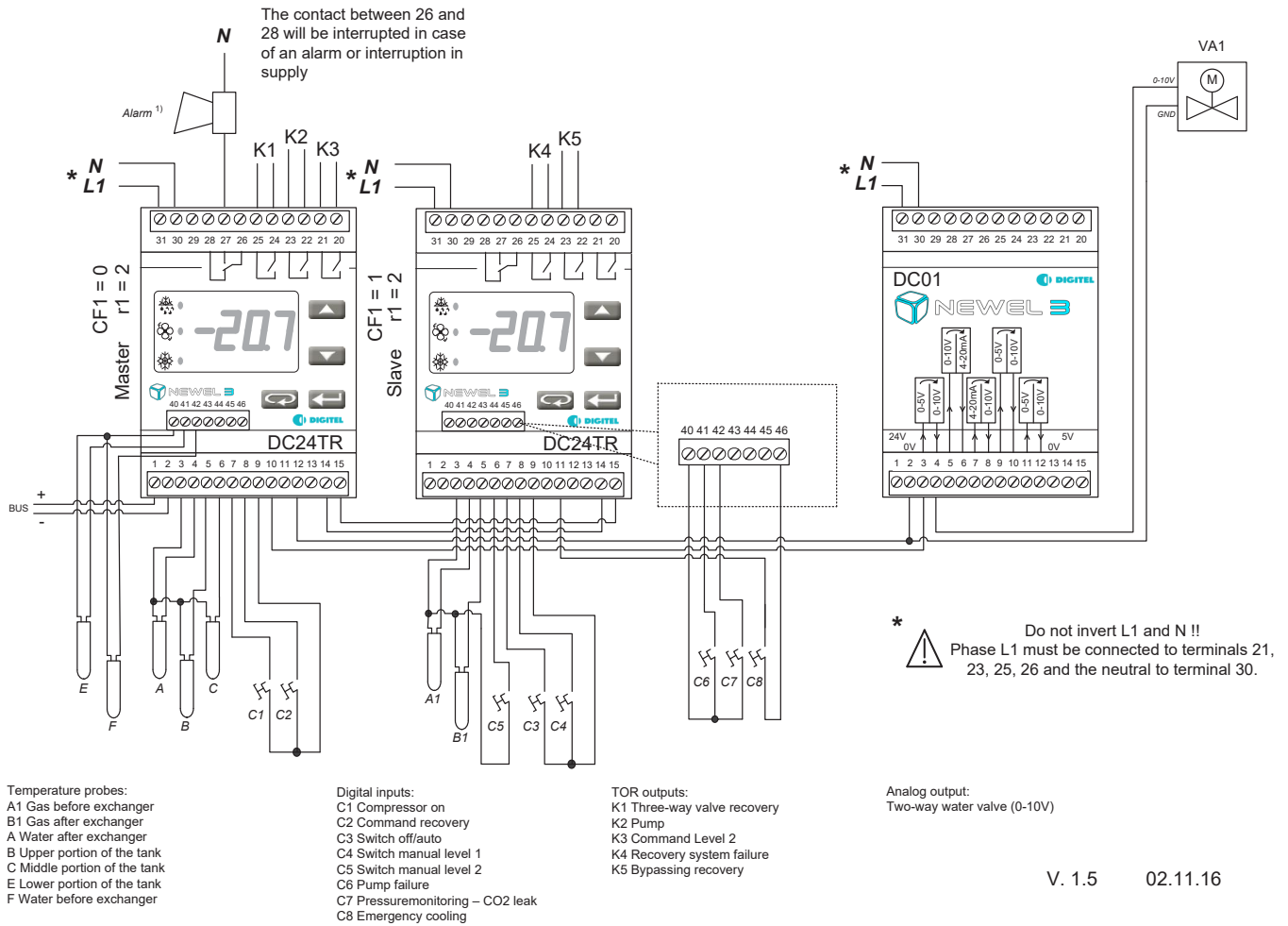


*  Do not swap L1 and N!
Phase L1 must be connected to terminals 21, 23, 25, 26 and neutral to terminal 30.

v1.7 / 21.06.2021

DC24TR in heat recovery control mode

The heat recovery is managed by two DC24TR modules.



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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