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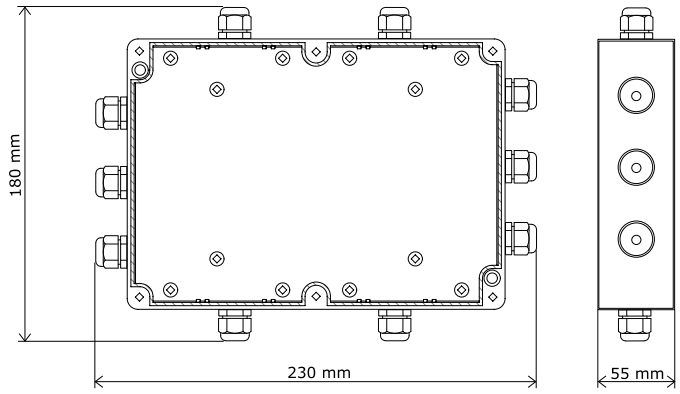
DRV V – control module for LEO typ V

DIMENSIONS



GENERAL INFORMATION

The DRV V control module is dedicated to LEO type V water heaters;

Features

- Integration to the SYSTEM FLOWAIR ;
- Communication with BMS ;
- Possibility to integrate the T -box ;
- Possibility to connect external PT-1000 temperature sensor

TECHNICAL DATA

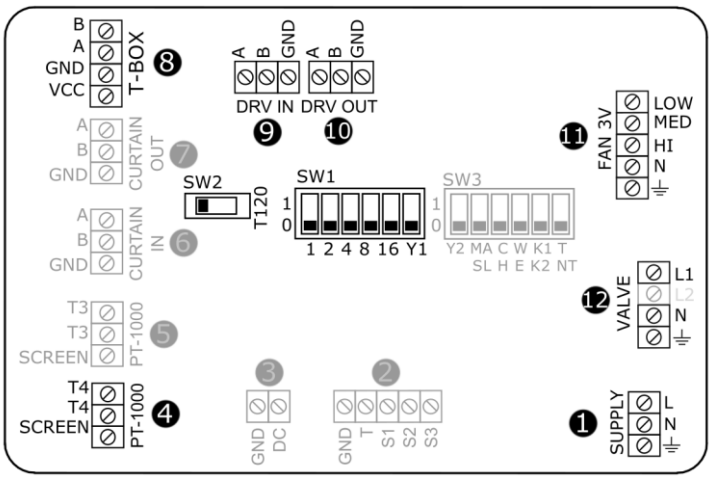
Operating temperature range	-10 ÷ +60 [°C]
Protection	IP54
Installation	Surface mounted
Max. size of the wire	2,5 mm²
Weight	0,75 kg
Colour	Grey

INSTALATION AND MAINTENANCE

WARNING!
Before starting any installation work, remember to disconnect power.

- DRV module can only be installed indoors;
- Signal wires should be secured by sleeves;
- Wire size should be selected by the designer.

CONNECTOR DESCRIPTION

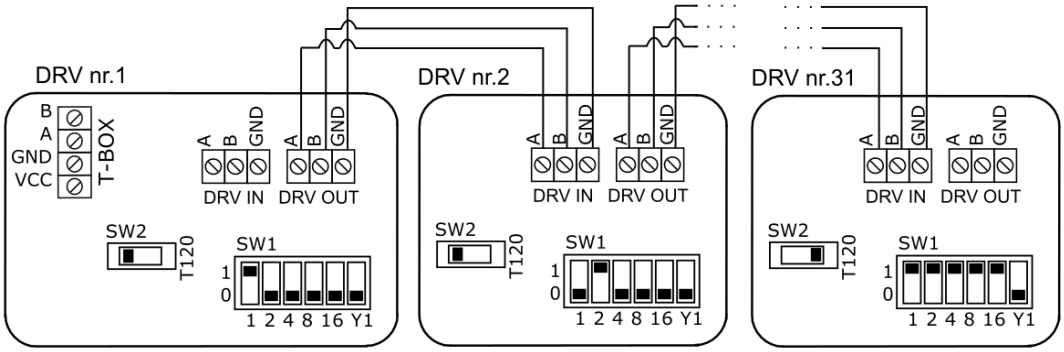


1. Power supply 230V/50Hz;
4. External temperature sensor PT-1000;
8. controller T-box;
9. BMS or previous DRV module;
10. next DRV module;
11. 3-step fan;
12. Valve.

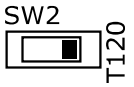
UWAGA: Non described connectors are active in other versions of the DRV control unit.

CONNECTING DRV MODULES

- It is possible to connect up to 31 modules DRV and control them with one T-box controller .



- In last DRV in line, DIP-switch SW2 has to be switched to the right -T120W



UWAGA: If the system consists only one module DRV DIP-switch SW2 also must be set in the right position T120

SETTING THE ADDRESS

When connecting DRV modules to the T-box controller or BMS, you have to binary set addresses on each (each DRV must have individual address) DRV module by DIP-switch SW1. To address modules check if the power supply is turned off, than set then the addresses as shown in the table, than turn on the power supply .

Down position

Up position

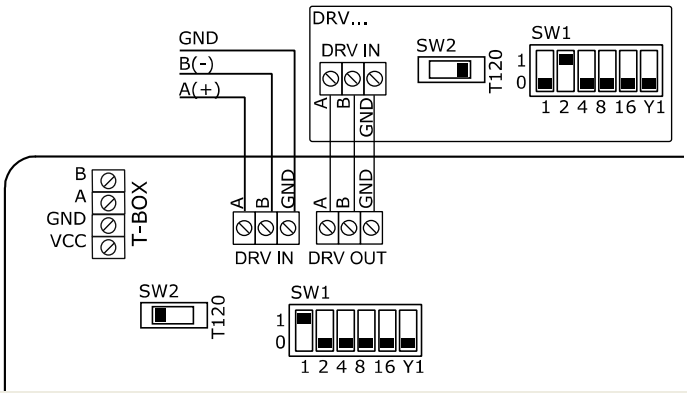
Address DRV						
1						
2						
3						
...						
31						
	1	2	3	4	5	6
	1	2	4	8	16	Y1

BMS CONNECTION DIAGRAM

DRV modules can be connected to the BMS (Building Management System).

Communication parameters:

Name	Description
Physical layer	RS485
Protocol	MODBUS-RTU
Baud rate	38400 [bps]
Parity	Even
Number of data bits	8
Number of stop bits	1



UWAGA: In last DRV in line, DIP-switch SW2 has to be switched to the right -T120W.

UWAGA: The connection must be carried out with 3 -wire (recommended UTP) to connectors DRV IN

CONNECTION DIAGRAM OF DRV WITH DEVICES