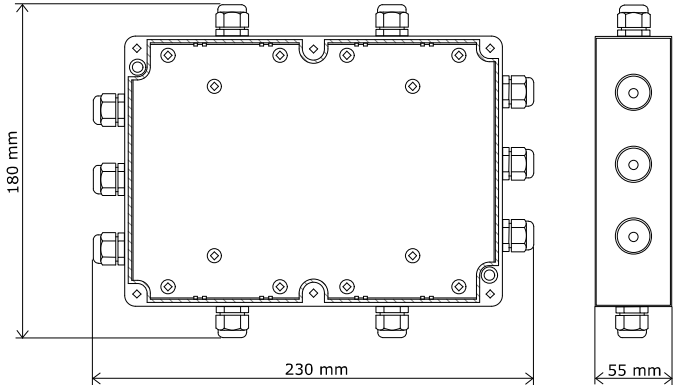
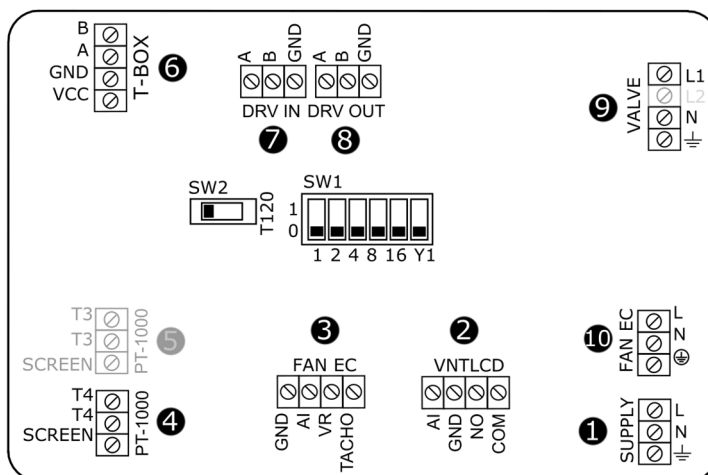


DRV M – control module for LEO type M

DIMENSIONS		GENERAL INFORMATION
		<p>The DRV M control module is dedicated to LEO type M water heaters;</p> <p>Features</p> <ul style="list-style-type: none"> • Integration to the SYSTEM FLOWAIR ; • Communication with BMS ; • Possibility to integrate the T -box ; • Possibility to connect external PT-1000 temperature sensor
TECHNICAL DATA		INSTALLATION AND MAINTENANCE
Operating temperature range	0 ÷ +60 [°C]	<p>WARNING! Before starting any installation work, remember to disconnect power.</p> <ul style="list-style-type: none"> • DRV module can only be installed indoors; • Signal wires should be secured by sleeves; • Wire size should be selected by the designer.
Protection	IP54	
Installation	Surface mounted	
Max. size of the wire	2,5 mm ²	
Weight	0,75 kg	
Colour	Grey	
CONNECTOR DESCRIPTION		

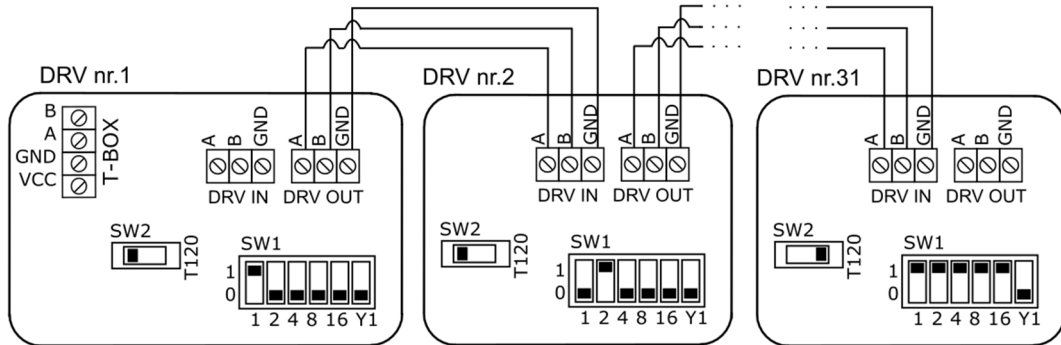


- 1 Power supply 230V/50Hz;
- 2 controller VNTLCD;
- 3 steering signal EC fan
- 4 External temperature sensor PT-1000;
- 5 controller T-box;
- 6 BMS or previous DRV module;
- 7 next DRV module;
- 8 valve
- 9 supply EC fan

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

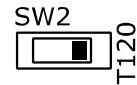
CONNECTING DRV MODULES

- 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

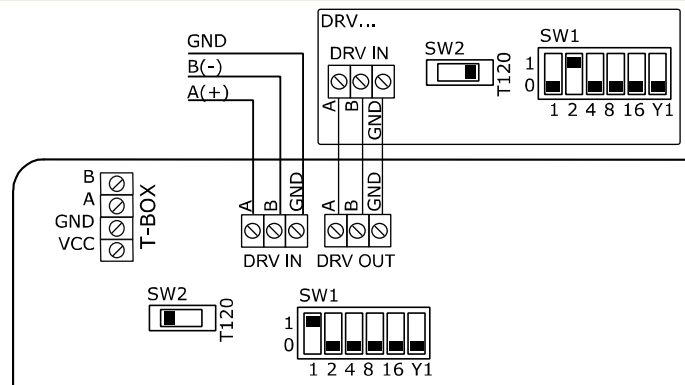
Address DRV							
1							
2							
3							
...							
31							
	1	2	3	4	5	6	
	1	2	4	8	16	Y1	

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	Eve <input type="checkbox"/>
Number of data bits	8
Number of stop bits	1



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

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

CONNECTION DIAGRAM OF DRV WITH DEVICES

