

DEVIreg™ Multi



DEVIreg™ Multi is 7 channel electronic programmable controller to be installed on DIN rail. Every channel can be individually set up with three control modes – with temperature sensor, time proportional power regulation without sensor and manually on/off with time limitation. Channels inputs can be selected via software between 8 types of temperature sensors including NTC 15 kOhm at 25°C.

Modbus RS485 opto-insulated serial interface gives possibility for BMS control.

DEVIreg™ Multi has some special functions which can be programmed for every channel: relay status - opened or closed correspondently to 'Heating On' mode, channel activation or deactivation, sensor failure alarm, min and max temperatures alarm, cable failure monitoring, relay test, channel on/off, relay cycles calculator, etc.

Benefits:

- 7 independent channels
- 3 control modes:
- with temperature sensor
- time proportional regulation
- manually on/off
- Heating or cooling control
- Compatible with 8 sensors types
- Accurate temperature control
- Alarm functions
- Cable failure monitoring
- Multilanguage menu
- Graphic LCD display
- BMS control
- Dimensions 8 DIN modules

Standard compliance:

- Low Voltage Directive 2014/35/EU
- EMC Directive 2014/30/EU
- EN/IEC 60730-1 + EN/IEC 60730-2-9

Approvals:



Type	Value
Nominal voltage	110/230 V AC, 50–60 Hz
Power consumption, max.	20 V A
Relay resistive (inductive, cos(phi) = 0,6) load:	
Total current load limit	32 A
C1-NO1, C2-NO2	10 (3,5) A (100 000 cycles)
C5-NO5, C6-NO6	6 (4) A (100 000 cycles)
C3-NO3-NC3, C4-NO4-NC4	6 (4) A (100 000 cycles)
C7-NO7-NC7, C8-NO8-NC8	6 (4) A (100 000 cycles)
Sensor inputs	Analog inputs AI1-AI8
Sensing unit	Temperature sensors separately selectable via software at analog inputs AI1-AI7 between: NTC15k (15 kOhm @ 25 °C) NTC10k (10 kOhm @ 25 °C) NTC5k (5 kOhm @ 25 °C) NTC2k (2 kOhm @ 25 °C) NTC100 (100 kOhm @ 25 °C) NTC16k (16,7 kOhm @ 100 °C) PT1000 (1000 Ohm @ 0 °C) Ni100 (100 Ohm @ 0 °C)
Sensor failure monitoring	Disconnected or short-circuited sensor
Digital inputs	DI1-DI8, voltage free contacts, on/off inputs
Connection specification	Grouped screws plug-in connectors, pitch 5 mm
Cable specification for connectors terminals	Section cable 0,2-2,5 mm ²
Battery back-up time, min.	48 hours
Communication type	MODBUS
Pollution degree	2 (domestic use)
Controller type	1 C
Operating temperatures and conditions	CE: -20...+60 °C / UL: 0...55 °C, 90% RH non-condensing
Storage temperature and conditions	-30...+85 °C, 90% RH non-condensing
IP class	IP40 only on the front cover
Protection class	Class II -
Immunity against voltage surges	Designed for Over Voltage Category II
Dimensions (H/W/D), DIN dimension :	110(122) x 138 x 70 mm, 8 DIN modules
Mounting method	DIN rail, complying with EN 60715
Weight, net	511 g
Menu languages:	2.0 en, bg, cs, da, de, es, et, fi, fr, hr, hu, lt, no, pl, ro, ru, sk, sl, sv, tr, uk
Base controller	Danfoss MCX08M2, item no. 080G0307
Software class	A

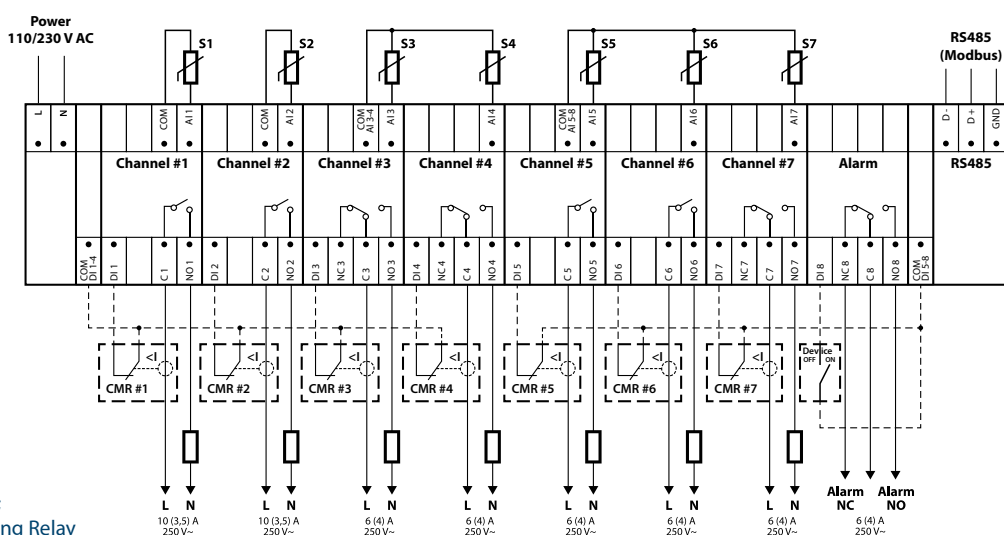
Types: set DEVIreg™ Multi + 1 sensor NTC 15kOhm

Product Code	Product name	Description
01-140F1139	DEVIreg™ Multi	Programmable controller with Wire sensor NTC 15 kOhm at 25 °C, 3 m

Accessories

Product Code	Product name	Description
01-140F1095	Room sensor, 426-frame	85 x 85 x 30 mm, NTC 15 kOhm at 25 °C, IP 20
01-140F1096	Outdoor sensor IP44	80 x 50 x 35 mm, NTC 15 kOhm at 25 °C, IP 44
01-140F1091	Sensor 3 m, 15 kOhm, Santoprene	Wire sensor, 2x0,75 mm ² , NTC 15 kOhm at 25 °C, Ø5x18 mm, black Santoprene (TPV), IP 67
01-140F1098	Temperature Sensor 10 m NTC 15k Santoprene	
01-19121445	Sensor cable 40 m, 15 kOhm, Santoprene	
01-140F1092	Outdoor sensor 2,5 m, 15 kOhm, PVC	Wire sensor, 2x0,75 mm ² , NTC 15 kOhm at 25 °C, Ø10 mm, white PVC outer sheath, IP 67
01-140F1097	Silicon sensor for DEVIreg™ 330 (60-160°C), NTC 16,1 kOhm @ 100°C	Wire silicon sensor, 2,5 m, 2x0,75 mm ² , NTC 16,1 kOhm at 100 °C, IP 65
01-084N3209	Sensor EKS 221 NTC 10K 8,5m cable	Wire sensor, NTC 10 kOhm at 25 °C, Ø6x15 mm, IP 67
01-084N3210	Sensor EKS 221 NTC 10K 3,5m cable	
01-084N1221	Sensor EKS 211 NTC 5000	Wire sensor, 3,5 m cable, NTC 5 kOhm at 25 °C, Ø8x30 mm, IP 67
01-084Z6039	Sensor MBT 153-2200-0350	Wire sensor, 3,5 m cable, PT 1000 kOhm at 0 °C, Ø5,7x40 mm, IP 67
01-080G0180	ACCCNX Connectors MCX-08M	Screws plug-in connectors set for MCX-08M

Connection scheme



S - temperature Sensor;
CMR - Current Monitoring Relay

General MCX08M2 controller connection scheme

