DEVIreg™ Hotwater

DEVI by Danfoss

Make it easy,
make it DEVI

DEVIreg™ Hotwater is an electronic programmable controller with 4 channels for on DIN rail mounting. Every channel can be set Individually to maintain hot water with the option to disinfect manually, or on a schedule. The channels sensors can be selected between 7 different temperature sensors including NTC 15 kOhm at 25°C. Building Management System (BMS) control is possible through the Modbus RS485 serial interface.

DEVIreg™ Hotwater has been developed to give the user easy setup, control of their hot water system, along with the option to disinfect. The controller allows up to 4 channels to be operated, each capable of controlling a separate pipe system. 2 sensors have to be used to measure the temperature for each channel.

Benefits:

- 4 independent channels
- 2 control modes:
- Hot water maintenance
- Hot water maintenance with disinfection
- user definable accuracy
- Compatible with 7 sensors types
- Sensor failure monitoring
- Accurate temperature control
- Alarm functions
- Multilanguage menu
- Graphic LCD display
- BMS control

Standard compliance:

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

Compliance symbols:

EAC C E UL

2 YEAR WARRANTY

Product

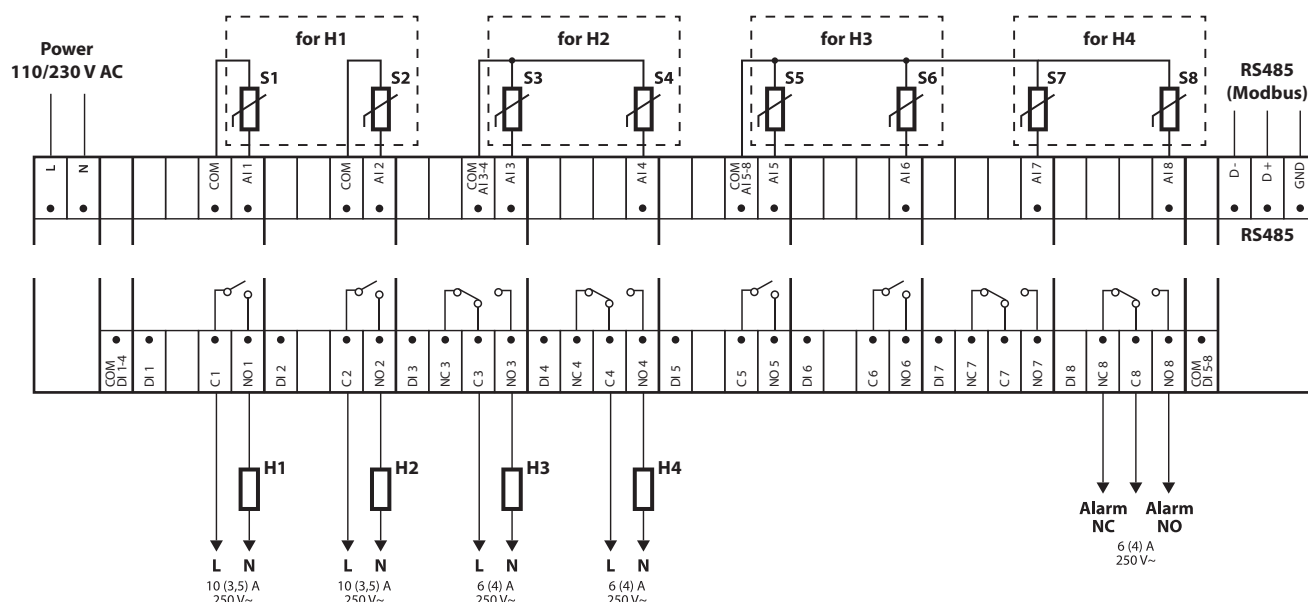| Type	Value
Nominal voltage	110/230 V AC, 50–60 Hz
Power consumption, max.	20 V A
Relay load: Resistive (inductive, cos(phi sign) = 0,6) Total current load limit C1-NO1, C2-NO2 C3-NO3-NC3, C4-NO4-NC4 C8-NO8-NC8	32 A 10 (3,5) A (100 000 cycles) 6 (4) A (100 000 cycles) 6 (4) A (100 000 cycles)
Sensor inputs	Analog inputs AI1-AI8
Compatible sensors	NTC15k (15 kOhm @ 25 °C) (standard) 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)
Digital inputs	DI1-DI8, voltage free contacts, on/off inputs
Connection specification	Grouped screws plug-in connectors
Cable specification for connector terminals	0,2-2,5 mm²
Battery back-up time, min.	48 hours
Ball pressure test	125 °C
Pollution degree	2 (domestic use)
Controller type	1 C
Operating temperatures and conditions	CE: -20T60 / UL: 0T55, 90% RH non-condensing
Storage temperature and conditions	-30T85, 90% RH non-condensing
IP class	IP40 only on the front cover
Protection class	Class II - ▣
Immunity against voltage surges	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:	GB,DE,BG,CZ,DK,ES,EE,FI,FR,HR,HU,LT,LV, NL,NO,PL,PT,RO,RU,SE,SR,SI,SK,TR,UA,CN.
Base controller	Danfoss MCX08M2\
Software class	A

Types: DEVIreg™ Hotwater

Item no.	Product name	Type	EAN no.
140F1133	**DEVIreg™ Hotwater**	Programmable controller with 2 Wire sensor NTC 15 kOhm at 25 °C, 3 m	5703466249680

Accessories

Item no.	Product name	Description	EAN no.
140F1091	**Sensor 3 m, 15 kOhm, Santoprene**	Wire sensor, 2x0,75 mm², NTC 15 kOhm at 25 °C, Ø5x18 mm, black Santoprene (TPV), IP 67	5703466209301
140F1098	**Temperature Sensor 10 m NTC 15k Santoprene**		5703466210734
19121445	**Sensor cable 40 m, 15 kOhm, Santoprene**		5703466115015
140F1092	**Outdoor sensor 2,5 m, 15 kOhm, PVC**	Wire sensor, 2x0,75 mm², NTC 15 kOhm at 25 °C, Ø10 mm, white PVC outer sheath, IP 67	5703466209318
140F1097	**Silicon sensor for DEVIreg™ 330 (60-160 °C), NTC 16,1 kOhm @ 100 °C**	Wire silicon sensor, 2,5 m, 2x0,75 mm², NTC 16,1 kOhm at 100 °C, IP 65	5703466209707

Connection scheme

S - temperature Sensor;