

AHC40 Actuator with weather compensated controller

Main features

Application	control of heating system and mixing valves
Description	Actuator with AHC weather compensated controller combines control of a mixing valve with a heating system control following an OTC curve; the side LEDs indicate momentary movement direction, the middle LED indicates the state of the valve (OK=green, FAULT=red); the position of the valve member can be read from the sight glass (blue vs. red)
Connection to valve	included is a set of adapters for connection of valves of various manufacturers: 1ASCAVMSA for Esbe, Seltron, Somatherm, Acaso, IVAR, WIP, PAW, BRV, IMIT, Hora, Barberi, Olymp, Hoval; 1ASCAVMSG for Esbe VRG
Code	16 253

Technical data

Control	weather compensated control
Mixing valve control	to a temperature following an OTC curve
Torque	6 Nm
Angle of rotation	90°
Shift time	120 s
Power supply	230 V AC, 50 Hz
Max. power input	< 3.5 VA
Relay – output to circulation pump	5 (1) A, 250 V AC
Power consumption in standby mode	max. 0.25 VA
IP rating	IP42 by EN 60529
Protection class	I by EN 60730-1
Ambient temperature	5 to 40 °C
Teplota skladování	-20 to 65 °C

Dimensions, weight, material

Dimensions	101 x 84 x 88 mm
Weight	0.80 kg
Case material	PC

Power cable

Cross section area	3 x 0.75 mm ²
Electrical plug	yes, type E/F
Length	≈ 2 m

Temperature sensor

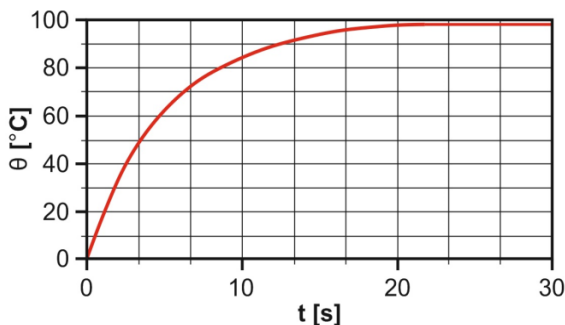
Type	Pt1000
Quantity	3 sensors are included in supply (max. 4 can be connected)
Marking	terminals distinguished by colours – red, black, blue (outdoor)
Cable length	1 m (red), 3 m (black), 15 m (blue)

Communication

Connection to other AHC40 controllers	BUS
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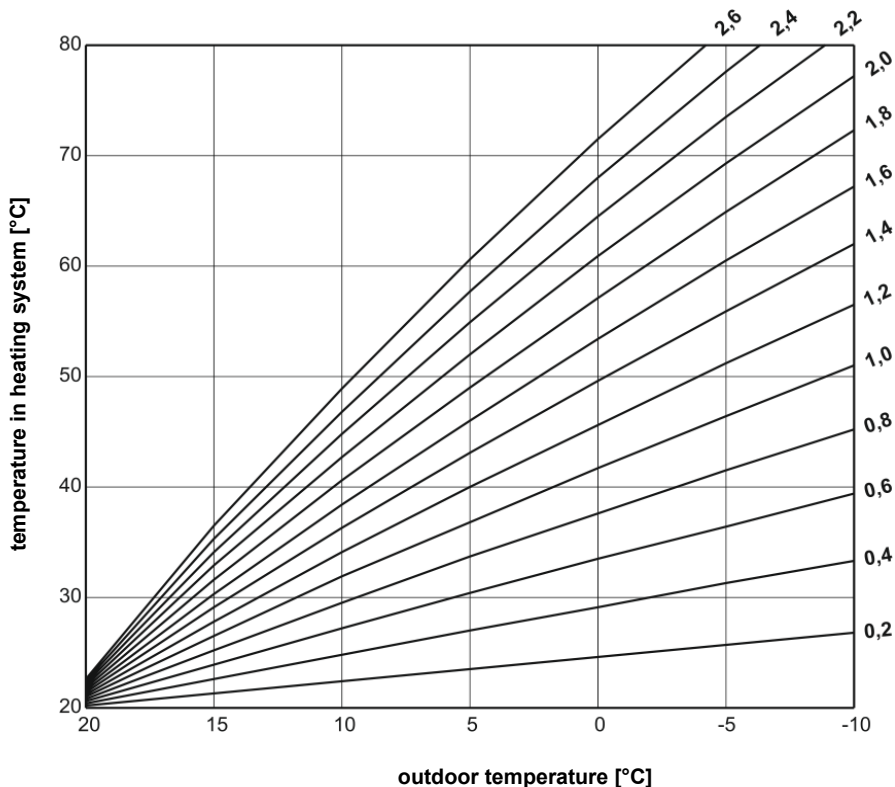
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Pt1000 - graph of reaction time in water and temperature vs. resistance table

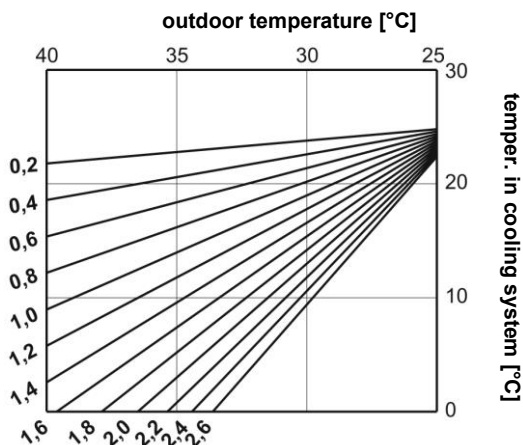


Temperature [°C]	Resistance [Ω]
0	1000
20	1078
40	1155
60	1232
80	1309
85	1328
90	1347
95	1366
100	1385

Heating curves graph

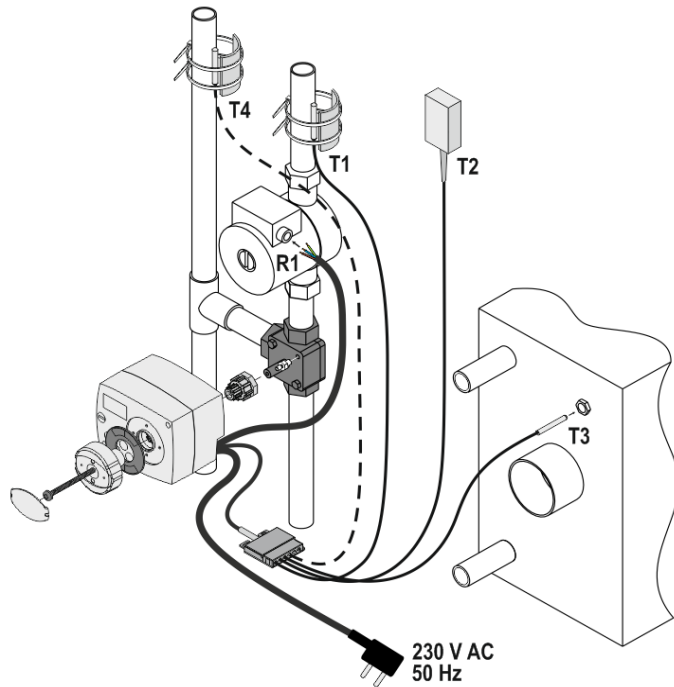


Cooling curves graph



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Wiring diagram



T1 - T4 ... temperature sensors
R1 ... pump switching