CONTROLLERS CONTROLLER SERIES CRC120

ESBE series CRC120 is a combined actuator and a weather compensating controller. Recommended for valves of DN65 up to DN150, especially suited for ESBE 3-way valves series F.



CRC121/CRC125 230 V AC

OPERATION

The ESBE series CRC120 is designed to provide a high level of comfort thanks to the possibility to set a perfect characteristic heating curve and at the same time provide energy savings for the house owner. The controller consist of three parts:

- controller unit, with display included for easy mounting on wall etc, well suited for applications where the actual valve and actuator is located in a hard-to-reach position.
- actuator unit, to be mounted to the mixing valve controlling the heat supply.
- outdoor sensor, to be mounted on the north side of the building.

The regulation is based on outdoor sensor feedback and an adjustable characteristic heating curve. An offset / parallel adjustment of the characteristic heating curve may be activated by an external signal for example night settings. For applications with well insulated building and quick heating systems such as radiator circuit a temperature filter can be activated to delay an outdoor temperature change to avoid an imbalance between estimated and actual heating demand.

MOUNTING

Power supply by 230 V AC adapter (complete with transformer, cable and wall socket plug).

Flow pipe sensor comes with 1,5m cable included (longer cable available as accessory). The sensor must be carefully insulated from ambient temperature.

Outdoor sensor with 20 m cable. The sensor shall be mounted on the north side of the building under the eaves in order to protect the sensor from direct sunlight and rain.

The actuator unit is recommended for mounting on ESBE valves series F.

OPTIONAL EQUIPMENT

Art. No.	
17053100	CRA911 Flow pipe sensor, 5m cable
98100690	Auxiliary switch Series 90

SUITABLE MIXING VALVES

Series F

ADAPTOR KITS

Required adaptor kits for easily fitting onto an ESBE rotary mixing valve is available in two different styles. Adaptor kit designed for ESBE mixing valve series MG, G, F, BIV, H, HG is supplied with each controller. Adaptor kits for ESBE mixing valve series VRG, VRH, VRB and VBF can be ordered separately. Art. No.

16051300 (= supplied with controller)

	ESBE valve series	, MG, G, F, BIV,	T, TM, H, HG
16053300	ESBE v	valve series VR	G, VRH, VRB

Adaptor kits for other mixing valves and valves built-into boilers are available as follows:

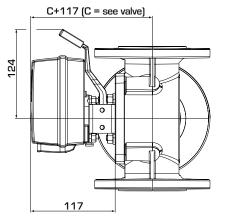
16053900 16051700 16051300	BRV, Meibes, Oventrop, Watts Honeywell Centra ZR, DR, DRG, DRU (DN15–50) Honeywell Centra Kompakt DRK/ZRK Sauter MH32H42 Schneider Electric/TAC-TRV Siemens VBG31, VBI31, VBF21, VCI31
	Siemens VBG31, VBI31, VBF21, VCI31
	Viessmann (DN20–25)

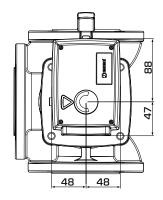
TECHNICAL DATA	
Ambient temperature:	max. +55°C
· · · · · · · · · · · · · · · · · · ·	min5°C
Sensors:	Temperature sensor type NTC
Temperature range,	
Flow pipe sensor:	+5 to +95°C
Outdoor sensor:	50 to +70°C
Enclosure rating - Actuator unit:	IP54
- Control box: _	IP54
Protection class:	II
Power supply:	230 ± 10% V AC, 50 Hz
Power consumption - 230 V AC:	
Torque:	
Running time at max. speed:	120s
ErP Temperature controls class:	III
Energy efficiency contribution: _	

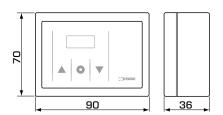
CE LVD 2014/35/EU EMC 2014/30/EU RoHS 2011/65/EU









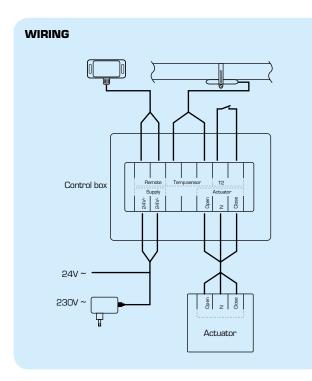


Installation dimensions for Actuator Series CRC120 with ESBE series MG, G, F, T/TM, H/HG and BIV mixing values

Installation dimensions for Control box

SERIES CRC120

Art. No.	Reference	Voltage [V AC]	Torque [Nm]	Weight [kg]	Note	Replaces
12842100	CRC121	230	15	1,8		
12842500	CRC125			1,8	Transformer with UK plug	



INSTALLATION EXAMPLE

