

# CONTROLLER SERIES CUA110

ESBE series CUA110 is a dual function controller, capable of both constant flow temperature control and indoor sensor based regulation. It may be used with most 3-point, 24 VAC actuator, such as an ESBE series ARA600 or series 90. Settings are done via a room display unit with integrated indoor sensor.

## OPERATION

The ESBE series CUA110 may be used both for constant flow temperature control and indoor sensor based regulation. The controller consists of two main parts:

- room display unit in modern design, which contains the indoor temperature sensor and in which the day-to-day climate adjustments are set
- control unit, equipped with a flow pipe sensor with 1.5m cable.

For maximum flexibility the controller may be used with most 24 VAC actuators with 3-point control (actuator not included in product). For electrical connection and load restrictions, please see Technical Data section. Temperature setting is done by an easy-to-use display unit. As constant flow temperature control it can be set within the range of 5 – 95 °C.

## MOUNTING

Power supply by 230 VAC adapter (complete with transformer and cable).

Control unit for easy mounting on wall etc near the actuator, well suited for applications where the actual valve and actuator is located in a hard-to-reach position.

Flow pipe sensor with 1.5m cable included (longer cable available as accessory). The sensor must be carefully insulated from the ambient temperature.

## OPTIONAL EQUIPMENT

Flow pipe sensor, 5m cable \_\_\_\_\_ Art. No. 1705 31 00



## SUITABLE ACTUATORS

The controller may most easily be fitted with ESBE actuators:

- Series ARA600
- Series 90
- Series ALA222
- Series ALD124, 144, 224, 244

## TECHNICAL DATA

Ambient temperature: \_\_\_\_\_ max. +55°C  
\_\_\_\_\_ min. -5°C

Temperature range:

Flow pipe sensor \_\_\_\_\_ +5 to +95°C

Room sensor \_\_\_\_\_ +5 to +30°C

Enclosure rating - Control box: \_\_\_\_\_ IP54

- Room display unit: \_\_\_\_\_ IP20

Protection class: \_\_\_\_\_ II

Power supply: \_\_\_\_\_ 230 ± 10% VAC, 50 Hz

Power consumption, 230 VAC: \_\_\_\_\_ 10 VA

Running time, recommended: \_\_\_\_\_ 120s (15 – 240s)

Weight: \_\_\_\_\_ 0.8 kg

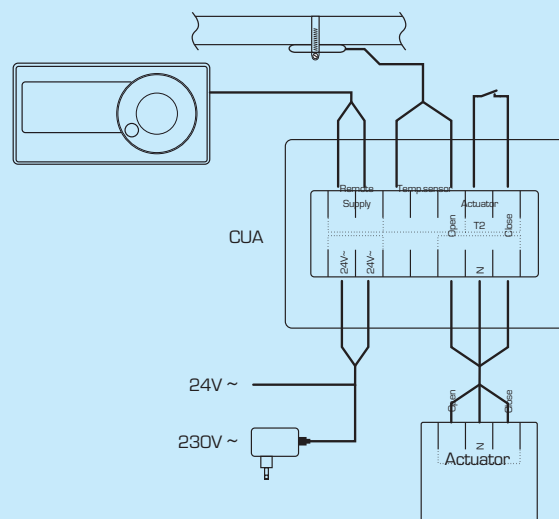
Max. allowed power consumption of actuator

with 230 VAC adapter: \_\_\_\_\_ 4 VA

Output voltage: \_\_\_\_\_ 3-point, 24 VAC

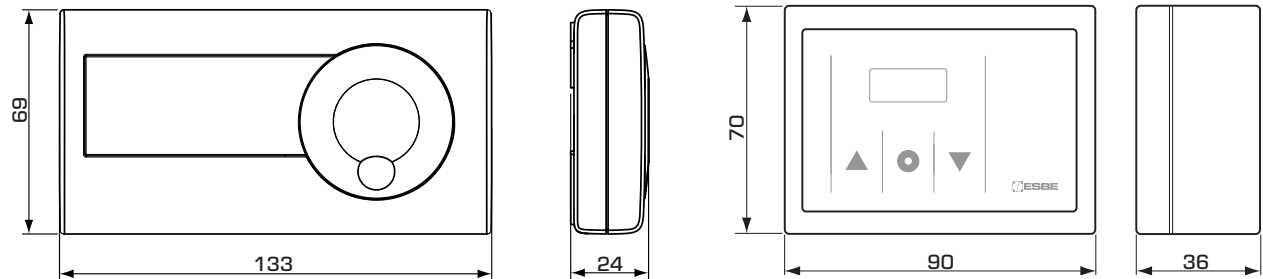
CE LVD 2006/95/EC  
EMC 2004/108/EC  
RoHS 2002/95/EC

## WIRING



# CONTROLLER

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Installation dimensions for Room display unit

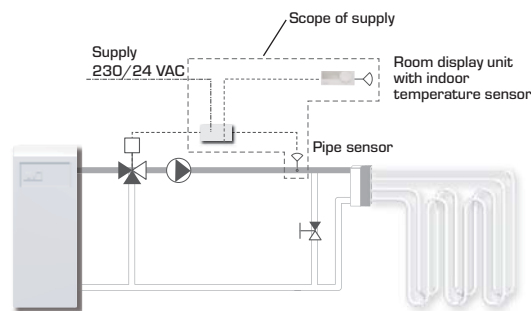
Installation dimensions for Control box

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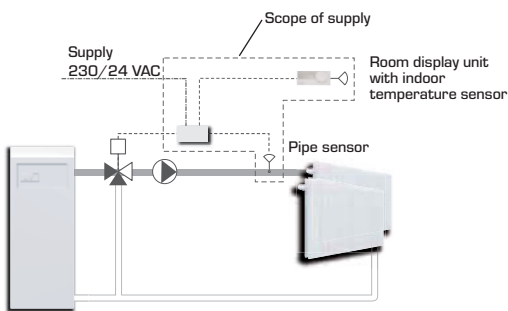
Art. No.	Reference	Voltage [VAC]	Temp. range	Note
1264 01 00	CUA111	230	5-95°C	

### INSTALLATION EXAMPLES

#### 1 ROOM TEMPERATURE CONTROL



#### 3 ROOM TEMPERATURE CONTROL



#### 2 CONSTANT TEMPERATURE CONTROL

