



The Oventrop Quality Management System is certified to DIN EN ISO 9001

Technical information

### Tender specification:

Oventrop electromotive actuators EIB for the direct connection to the European installation bus control system (EIB). Power is supplied through the bus control system so that a separate supply is not needed. The actuator automatically adjusts to neutral point and has one or two integrated binary entries. The bus and the binary entries are connected via a 4- or 6-core cable.

### Item no.:

- 115 60 65: "Uni EIB H" connection thread M 30 x 1.5, with one binary entry
- 115 60 75: "Uni EIB D" with adapter for radiators with integrated distributors with squeeze connection and M 23.5 x 1.5, with one binary entry
- 115 60 66: "Uni EIB H" connection thread M 30 x 1.5, with two binary entries
- 115 60 76 "Uni EIB D" with adapter for radiators with integrated distributors with squeeze connection and M 23.5 x 1.5, with two binary entries

### Performance data:

Power supply: via the installation bus control system EIB (SELV)  
24 V DC (+6V/-4V)

Power consumption: < 200 mW (< 10 mA at 20 V DC)

Number per line: max. 64 participants

Communication objects:	Object 0	1 Byte
	Nominal value/correcting variable	
	Object 1	1 Byte
	Actual value/correcting variable	
	Object 2	1 Bit
	Entry/compulsory setting	
	Object 3	1 Bit
	Local entry/binary entry	
	Object 4	1 Byte
	Working conditions/status	

divergent, only for item no.

115 60 66/76:	Object 3	1 Bit
	Local entry 1/binary entry	
	Object 4	1 Bit
	Local entry 2/binary entry	
	Object 5	1 Byte
	Working conditions/status	

Bus coupling: integrated (Bus Interface Module BIM)

Binary entry: 1 or 2 parametric binary entries  
(max. connectable total cable length 5 m)  
Signal voltage: 5 V DC  
Input impedance: 10 kΩ

Max. piston stroke: 4.5 mm

Regulator piston stroke: 2.6 mm – 4.0 mm

Resolution: 8 Bit (256 steps)

Operating power: > 90 N

Operating speed: about 30 s/mm

Protection: IP44 according to EN 60529

Protection system: III according to EN 60730

Electromagnetic compatibility: according to EN 50082-2, EN 50081-1

Max. fluid temperature: +100 °C

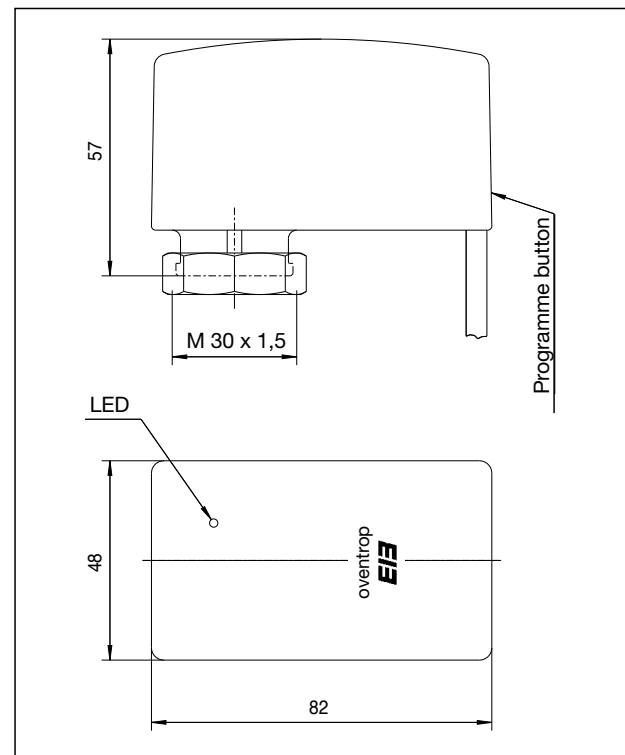
Ambient temperature: -5 °C - +45 °C, non condensing

Storage temperature: -25 °C - +70 °C, non condensing

Connecting cable: Item no. 115 60 65/75:  
J-Y(St)Y 2 x 2 x 0.6, close connection  
Item no. 115 60 66/76:  
(J)EYY 3 x 2 x 0.6, close connection  
1 m long



### Dimensions:



**Installation:**

The installation must be carried out by a qualified trades person who has detailed knowledge of the EIB bus control system. The connecting cable must not touch the warm radiator or pipework as this will accelerate the ageing of the cable insulation.

The Oventrop electromotive actuators EIB may be installed in any position except for vertical downward position.

The electric connection is carried out via the EIB bus clamp. Connect the red wire to plus and the black wire to minus. The binary entry 1 is connected with the yellow and white wire and the binary entry 2 (only item no. 115 60 66/76) with the green and brown wire.

A product databank to load the specific Oventrop data into the ETS (EIB Tool Software) data base is available on a 3.5" diskette or can be downloaded from the website [www.oven-trop.de](http://www.oven-trop.de).

**Application:**

When used with Oventrop valves and the corresponding temperature controllers, the Oventrop electromotive actuators EIB allow an exact individual room temperature control. Depending on the layout of the heating circuit, it is possible to control a number of radiators (zones) with one control valve only.

Within the installation bus system EIB, the electromotive actuators EIB are used for heating, ventilation and air-conditioning. The actuators can be used for room temperature control, e.g. with conventional radiators, radiators with integrated distributor, distributors/collectors for surface heating systems, radiant ceiling panels, chilled ceiling systems and induction air systems.

The electromotive actuators EIB may be combined with the following Oventrop valves:

- Thermostatic radiator valves, all series (except for "Series ADV 6)
- Valves of the "Series PTB" with linear flow characteristic line
- Distributors/collectors for surface heating systems (please observe ambient temperature within the cabinet)
- Regulating valves "Cocon" and "Hycococon ETZ/HTZ"
- Three-way diverting and mixing valves

**Note:**

Optimised characteristic lines for use with different valves are stored in the actuator. The choice of the corresponding valve type and the characteristic line involved is made via the parameter settings in the ETS (EIB Tool Software). The setting of the valve type has to be carried out carefully as a trouble-free function is no longer given in case of improper application.

The integrated binary entries can for example be connected to a window contact or a dew point sensor. The signal of the binary entry 1 can be read-out via the EIB and can also be processed internally (compulsory setting) if required. The signal of the binary entry 2 (only item no. 115 60 66/76) can be read-out via the EIB, but cannot be processed internally.

**Initialisation:**

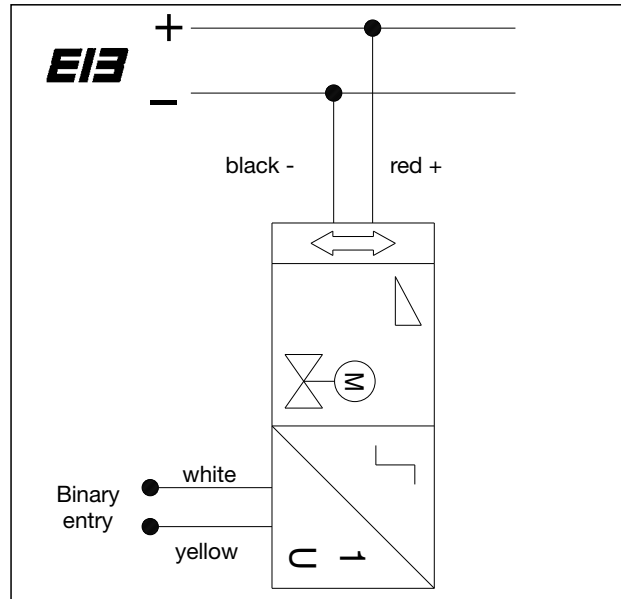
The allocation of the physical address as well as the programming of the specified project data is made via the ETS (EIB Tool Software). Programming of the physical address is confirmed by pressing the programme button with the LED display lighting up shortly.

**Accessories:**

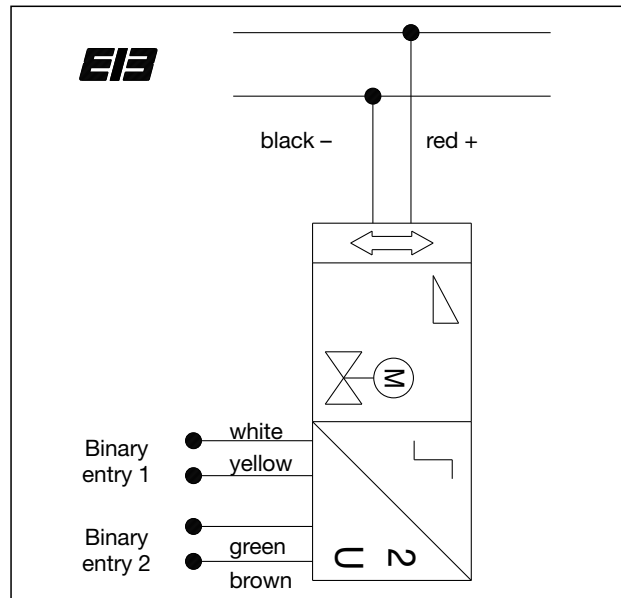
Product data bank EIB Item no. 115 60 51

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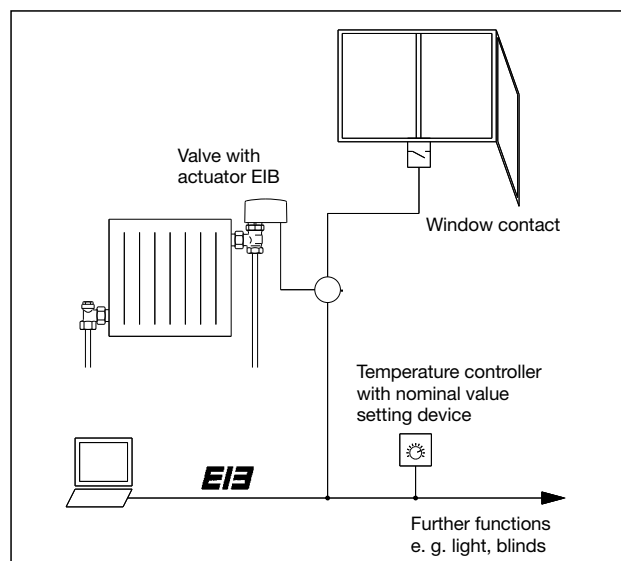
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Wiring diagram, item no. 115 60 65/75



Wiring diagram, item no. 115 60 66/76



Example of installation

Subject to technical modification without notice.