

**EYR 020: DDC individual-room controller with commun. capability *ecolon***

For temperature control of individual rooms according to occupancy. For activating thermal drives (for heating/cooling) and a ventilator. Using the EYB 020 operating unit, every function can be selected or viewed from the room.

Functions: window contacts, presence signal, ventilator control, dew-point monitoring. Suitable for connecting to a building management system via LON data interface. Compact unit for fitting in rows (DIN 43880) onto 35mm top-hat rail as per EN 50022.

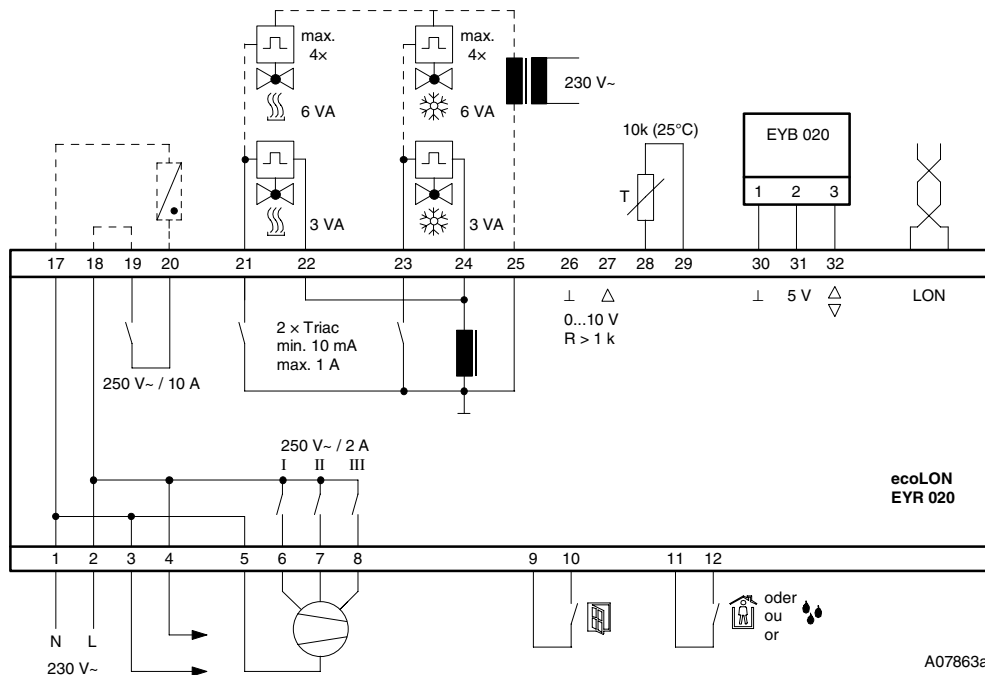
Housing of fire-retardant thermoplastic, grey (RAL 7035). Terminals for up to 2.5 mm<sup>2</sup>.



T08764

Type	Description	Weight [kg]
<b>EYR 020</b>	DDC individual-room controller with communication capability	0.6
<b>Technical data</b>		
Power supply 230 V~	± 10%, 50/60 Hz	Perm. ambient temp. 0...45 °C
Power consumption	12 VA	Permissible amb. humidity < 85 %rh without condensation
<b>Network variable</b>		Degree of protection IP 20
As per LONMARK	#8020 FCU	Wiring diagram <a href="#">A07863</a>
Customised	on request	Dimension drawing <a href="#">M08714</a>
		Fitting instructions <a href="#">MV 505643</a>
		Complies with:-
		Directive 73/23/EEC EN 60730
		EMC directive 89/336/EEC EN 61000-6-1/ EN 61000-6-3
		EN 61000-6-4
<b>Inputs</b>		
for window contacts	ON / OFF	<b>Outputs</b>
for occupancy detector or dew-point monitor	ON / OFF	
for temperature sensor <sup>2)</sup>	NTC 10	Triac switched output <sup>1)</sup>
Optional instead of EYB 020	Temperature sensor	2 × pulse-pauses, period 4 min. for heating / cooling (24 V~;1A) (24 V a.c., max. 1 A)
	Setpoint correction +/-	Relay switched output
	Presence button	3 contacts (250 V a.c., 2 A)
		1 contact (250 V a.c., 10 A)
		Control signal
		0-10 V optional
<p>1) The transformer integrated in the unit supplies 6 VA for operating a thermal drive for either a heating or a cooling valve. In conjunction with external auxiliary energy supply (24 V a.c.), four thermal drives can be operated (4 × heating, 4 × cooling, but not simultaneously).</p> <p>2) Optional instead of a room operating unit</p> <p>3) To external ventilator control via power supply unit</p>		

**Wiring diagram**



In cases where the industry standard (EN 61000-6-2) has to be met, the power cables for the analogue inputs (AI) and the power cable to the EYB operating units should be no longer than 30 m.

Dimension drawing

