
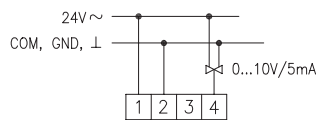

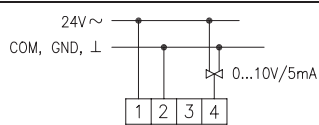

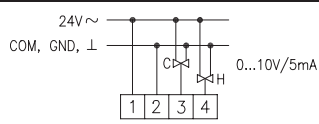


# Electronic continuous-action controller

For surface installation – Design Berlin 2000



Technical data	Application
<b>Operating voltage: Sensor:</b> 24 V~ / = approx. 1 VA safety extra low voltage	Room temperature controller for the permanent valve drives. Controller for the control of 2-pipe systems (1 conduit), 4-pipe systems (2 conduits) and mixing chambers.
<b>Sensor:</b> internal – NTC 47 kΩ (type KTRVB-042.207 for external NTC 47 kΩ)	
<b>Setting ranges:</b> 5 ... 30°C; 21° ± 8°C; (see "Equipment")	
<b>Proportional band:</b> 0.5 ... 3 K (see "Equipment")	
<b>Degree of protection:</b> IP 30	
<b>Protection class:</b> III	
<b>General equipment:</b> mechanical range suppression with model KTRVB-042.206 only	
<b>Indication (LED):</b> see "Equipment"	
<b>Switch:</b> see "Equipment"	
<b>Admissible air moisture:</b> max. 95 %, non condensing	
<b>Storage temperature:</b> –20 ... +70°C	
<b>Radio interference suppression:</b> acc. to EN 60730	
<b>Ambient temperature:</b> 0 ... 50°C	
<b>Housing colour:</b> pure white, similar to RAL 9010	
<b>Housing material:</b> plastic (ABS)	
<b>Mounting / installation:</b> surface / wall installation	
<b>Weight:</b> approx. 130 g / sensor approx. 160 g	
<b>Electrical connections:</b> terminal screws	

Model / Picture	Equipment	Circuit diagram	PG
<b>KTRVB-048.100</b> Art.-Nr. DA 450000  Replaces PETA 75.500	<b>Setting range:</b> 5 ... 30°C <b>Output:</b> Analogue output 0 ... 10 V or 10 ... 0 V, repluggable, 5 mA, adjusted to 5 V (at set temperature) <b>Inputs:</b> Internal sensor NTC 47 kΩ <b>Indications:</b> Set value scale 5 ... 30°C <b>Functions:</b> Heating and cooling with adjustable p-band <b>Adjustments:</b> P-Band + 0.5 ... + 3 K (factory setting: 2 K) <b>Application:</b> Control of climates in mixing chambers by means of a proportionally actuated valve.		A
<b>KTRVB-048.200</b> Art.-Nr. DA 450100  Replaces PETA 75.502	<b>Setting range (turning knob):</b> 21°C ± 3 K The factory preset "zero" (21°C) can be changed internally by ± 5 K <b>Outputs:</b> Analogue output 0 ... 10 V or 10 ... 0 V, repluggable, 5 mA, adjusted to 5 V (at set temperature) <b>Inputs:</b> Internal sensor NTC 47 kΩ <b>Indications:</b> Relative scale (set value 21°C with "0" marking and swelling arrow "+" and "-" for warmer / colder) <b>Functions:</b> Heating and cooling with adjustable p-band <b>Adjustments:</b> P-Band 0.5 ... 3 K (factory setting: 2 K) <b>Application:</b> Control of climates in mixing chambers by means of a proportionally actuated valve.		A
<b>KTRVB-042.100</b> Art.-Nr. DA 451000  Replaces PETA 75.800 PETA 75.803	<b>Setting range:</b> 5 ... 30°C <b>Outputs:</b> Analogue heating output (0 ... 10 V oder 10 ... 0 V), repluggable, 5 mA Analogue cooling output (0 ... 10 V oder 10 ... 0 V), repluggable, 5 mA <b>Inputs:</b> Internal sensor NTC 47 kΩ <b>Indications:</b> Set value scale 5 ... 30°C <b>Functions:</b> Heating and cooling with adjustable neutral zone and adjustable p-band <b>Adjustments:</b> Neutral zone – 1 ... + 5 K (factory setting: 1 K) P-band "heating" 0.5 ... 3 K (factory setting: 1 K) P-band "cooling" 0.5 ... 3 K (factory setting: 2 K) <b>Application:</b> Control of climates in individual rooms, the conditioning of which is realised via 2-conduit systems (4-pipe systems) and proportionally actuated valves.		A