



## Electromechnical Boiler Control Panels

### AVA75.300

Electromechnical boiler control panel for integration in heating boilers. The panel contains the basic elements required for the control and operation of oil- and gas-fired boilers.

- Using the control panel, the boiler can be operated manually (without controller) or weather-compensated (with controller)
- The AVA75.300/... and the associated accessory items are intended for use by OEMs which integrate the panels in their boilers

#### Mounting instructions

The control panel is designed for integration in floor-standing or wall-hung oil- or gas-fired heating boilers and may only be used for that purpose. When mounting the control panel, the following points must be observed:

- Panel cut-out required: 400 mm x 104 mm  
Panel front thickness: 0.8 ... 1.5 mm
- The control panel is secured in the cut-out with a snap-on mechanism or, additionally, with screws
- The power supply to the control panel may be switched on only after the panel is completely fitted in the cut-out and a controller from the ALBATROS range is inserted. In the case of manual operation (without using a controller), the cut-out for the controller must be covered with dummy covers AVA10.200/109 and AVA30.200/109
- The control panel wiring to the connection terminals does not feature tension relief and, for this reason must be mounted such it is not put under tension – using the terminal plates, or that adequate tension relief is provided. The external connecting cables (for the sensors, mains supply, pumps, etc.) can be provided with tension relief by using cable ties on the terminal plate



Caution

- The connecting cables and the control panel wiring must be mounted such that
  - the temperature of the terminal plates with the connection terminals does not exceed 50 °C
  - the temperature of the cables does not exceed 70 °C
- The local safety regulations must be complied with

## Functions

The boiler control panel contains the basic operating elements such as on / off switch, test of the safety limiter-button, remote reset and pump switch, as well as the signal lamps for burner fault and safety limit thermostat (STB).

Also integrated in the panel are a safety limit thermostat (STB), a control thermostat (TR) with a setting range of 27...87 °C and a miniature fuse (G) (6.3 AT-H). If required, a boiler thermometer can also be fitted.

**With customized versions, there are a number of options with regard to operating and control elements:**

<i>Element</i>	<i>Standard version</i> AVA75.300/109 or /209	<i>Customer version</i> AVA75.300/...
Thermometer (indication of boiler temperature)	Optional	Optional
Safety limit thermostat STB	110 +0/-7 °C	110 +0/-7 °C or 100 +0/-7 °C
Control thermostat TR	27...87 °C with no limitation	27...87 °C; range can be limited in increments of 6 °C
Operating and control elements	Main switch I/O TÜV button Signal lamp for STB Remote reset for burner Signal lamp for burner Pump switch boiler	Min switch I/O TÜV button Signal lamp for STB * Remote reset for burner * Signal lamp for burner * Pump switch boiler *

\* Optional, depending on customized version

## Accessories

<i>Type reference</i>	<i>Description</i>
AVA97.400 /109	Shorting plug for operation without controller
RVA19.500/109	D.h.w. thermostat for operation without controller
AVA86.540 /109	Cable set for operation with controller RVA53.140/xxx or RVA33.121/xxx
AVA86.580 /109	Cable set for operation with controller RVA6x.xxx/xxx
AVA10.200/109	Dummy cover, small
AVA30.200/109	Dummy cover, large

## Technical data

Power supply	Nominal voltage	AC 230 V (±10 %)
	Mains frequency	50 Hz
	Fuse	6.3 AT-H (5 x 20 mm) **
	Max. power consumption	0.5 VA
Functional data	Mode of operation to EN 60 730	1b (automatic operation)
Outputs	Relay output Q3 (d.h.w. charging pump) (RVA19.500)	
	Nominal voltage range	AC 230 V
	Nominal current range	AC 0.02...2 (2) A
	Other outputs	refer to the Data Sheet of the relevant controller
Degree of protection and safety	Degree of protection of housing to EN 60 529	IP 40 (when built in)
	Safety class to EN 60 730	corresponds to design of safety class II if adequately mounted
	Degree of contamination to EN 60 730	normal contamination
Standards, EMC, etc.	CE conformity to low voltage directive electrical safety	73/23/EEC EN 60730-1, EN 60730-2-9
Ambient conditions	Perm. ambient conditions	
	Transport	-25...+70 °C / <95 % rH *
	Storage	-5 ... +55 °C / <95 % rH *
	Operation	0 ... +50 °C ** / <85 % rH *
Dimensions, weight packing	Weight (without packing)	1.6 kg
	Dimensions	overall: 405 mm x 128 mm
	Packing	in lots of 12 pieces

\* Non-condensing !

\*\* Operation with 6.3 AT-L –miniature fuse is possible under a reduced ambient temperature of 0 ... 40 °C

