

PVA-4R24 Router

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Invented for life



- Expansion of PAVIRO system by 24 zones
- Total 4000 W speaker load, max 500W per zone
- 20 GPI, 24 GPO and 2 control relays
- Up to 20 routers per controller
- EN 54-16 and ISO 7240-16 system certification

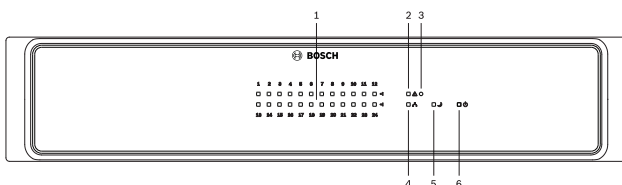
The PVA-4R24 24 Zone Router is a zone extension for the PAVIRO system. It adds 24 zones, 20 GPIs, 24 GPOs and 2 control relays to the system and is controlled and supervised via the CAN bus by the PVA-4CR12 (Controller).

Up to 20 routers can be connected to one controller. One router can handle up to 4000 W speaker load. The maximum load of one zone is 500 W.

The zone indicator lights on the front indicate the current status of every zone:

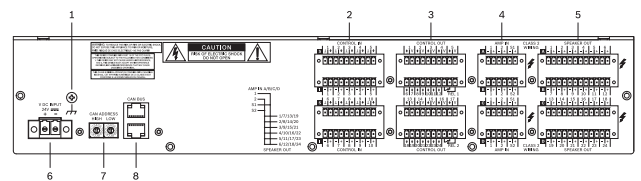
- Green: Zone in use for non emergency purpose
- Red: Zone in use for emergency purpose
- Yellow: Zone fault detected
- Off: Zone in idle condition

System overview



- 1 Zone status indicator light
- 2 Combined fault warning indicator light
- 3 Recessed button

- 4 Network indicator light
- 5 Standby indicator light
- 6 Power indicator light



- 1 Grounding screw
- 2 CONTROL IN ports
- 3 CONTROL OUT ports
- 4 AMP IN ports
- 5 SPEAKER OUT ports
- 6 DC power input
- 7 CAN ADDRESS selector switch
- 8 CAN BUS port

Certifications and approvals

Emergency standard certifications

Europe	EN 54-16
International	ISO 7240-16

Environmental directive compliance

Safety	EN 60065
Immunity	EN 50130-4
Emissions	EN 61000-6-3 ICES-003 FCC-47 part 15B class A
Environment	EN 50581
Maritime	EN 60945

Conformity

Europe	CE/CPR
USA	FCC
Canada	ICES
Australia	RCM
Korea	KCC
Russian Federation	EAC
Environment	RoHS

Parts included

Quantity	Component
1	PVA-4R24 Router
1	Set of connectors
1	Set of feet
1	Operation manual
1	Important safety instructions

Technical specifications

Electrical

Audio inputs (100 V)	AMP IN: 4 × 6-pin port
• Max. voltage	120 V _{eff}
• Max. current	7.2 A
• Max. power	500 W
Audio outputs (100 V)	SPEAKER OUT: 4 x 12-pin port
• Max. voltage	120 V _{eff}

• Max. current	7.2 A
• Max. power	500 W
CONTROL IN	4 × 10-pin port
• Control inputs	10 supervised inputs (0-24 V, U_{max} = 32 V) 10 isolated inputs (Low: U ≤ 5 V DC; High: U ≥ 10 V DC, U_{max} = 32 V)
CONTROL OUT	4 x 10-pin port
• Control outputs	24 Low Power outputs (open collector, U _{max} = 32 V, I _{max} = 40 mA)
• Control relay	2 (NO/NC relay contacts, U _{max} = 32 V, I _{max} = 1 A)
Interfaces	
• CAN BUS port	2 x RJ-45, 10 to 500 kbit/s (for controller, router, amplifier connection)
DC power input	21-32 V DC
Power consumption	5-60W
Maximum supply current	- Standby < 250 mA - Idle/Announcement/Alert < 800 mA

Environmental

Operating temperature	-5 °C to +45 °C (+23 °F to +113 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Humidity (non-condensing)	5% to 90%
Altitude	Up to 2000 m

Mechanical

Dimensions (HxWxD)	88 mm x 483 mm x 391 mm
Weight (net)	8.2 kg
Mouting	Standalone; 19 in. rack
Color	Black with silver

Ordering information

PVA-4R24 Router

24-zone expansion unit for PAVIRO system, 2 RU
Order number **PVA-4R24**

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