PVA-4R24 Router

PAVIRO

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
## Certifications and approvals

### Emergency standard certifications
- Europe: EN 54-16

### Emergency standard compliance
- UK: BS 5839-8
- Austria: ÖNORM F 3033

### Environmental directive compliance
- Safety: EN 62368-1
- 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

## Technical specifications

### Electrical

#### Audio inputs (100 V)
- AMP IN: 4 x 6-pin port
- • Max. voltage: 120 V\textsubscript{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\textsubscript{eff}
- • Max. current: 7.2 A
- • Max. power: 500 W

#### CONTROL IN
- 4 x 10-pin port
- • 10 supervised inputs (0-24 V, \(U_{\text{max}} = 32\) V)
- • 10 isolated inputs (Low: \(U \leq 5\) V DC; High: \(U \geq 10\) V DC, \(U_{\text{max}} = 32\) V)

#### CONTROL OUT
- 4 x 10-pin port
- • Control outputs: 24 Low Power outputs (open collector, \(U_{\text{max}} = 32\) V, \(I_{\text{max}} = 40\) mA)
- • Control relay: 2 (NO/NC relay contacts, \(U_{\text{max}} = 32\) V, \(I_{\text{max}} = 1\) 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
- 5-60 W

### Maximum supply current (24 V)
- • Standby: < 250 mA
- • Idle/announcements/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%
Communications Systems - PVA-4R24 Router

Altitude

<table>
<thead>
<tr>
<th>Mechanical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (HxWxD)</td>
</tr>
<tr>
<td>Weight (net)</td>
</tr>
<tr>
<td>Mounting</td>
</tr>
<tr>
<td>Color</td>
</tr>
</tbody>
</table>

Ordering information

PVA-4R24 Router
24-zone expansion unit for PAVIRO system, 2 RU
Order number PVA-4R24 | F.01U.396.303 F.01U.298.640

Services
EWE-PVORTR-IW 12 mths wrty ext. PAVIRO Router
12 months warranty extension
Order number EWE-PVORTR-IW | F.01U.360.719

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