

# PMX-4R24 Router



- Expansion of PROMATRIX 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

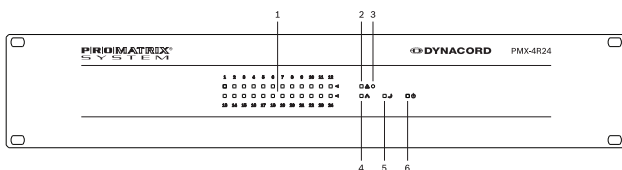
The PMX-4R24 24 Zone Router is a zone extension for the Promatrix 6000 system. It adds 24 zones, 20 GPIs, 24 GPOs and 2 control relays to the system and is controlled and supervised via the CAN bus by the PMX-4CR12 (Controller).

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:

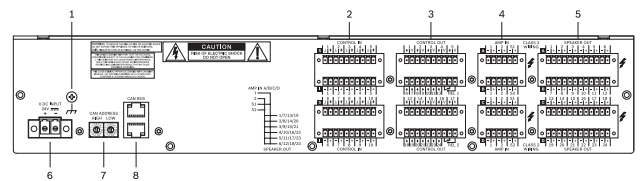
- Green: Zone in use for non emergency purpose
- Red: Zone in use for emergency purpose
- Yellow: Zone fault detected
- Off: Zone in idle condition

## 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

## Parts included

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

## Technical specifications

### Electrical

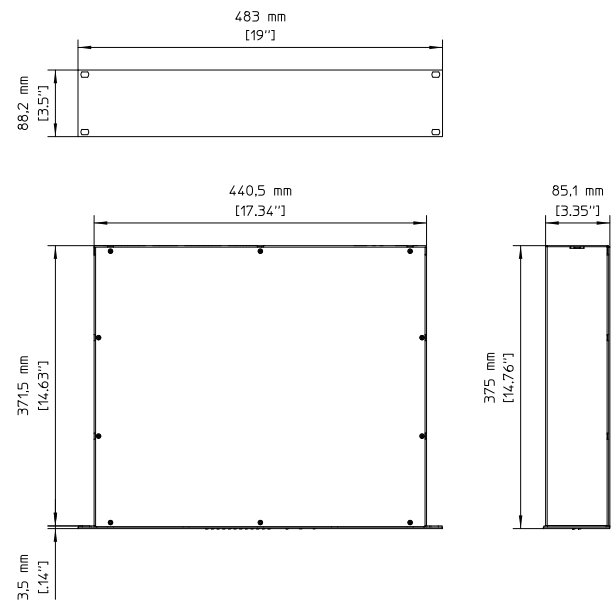
Audio inputs (100 V)	AMP IN: 4 × 6-pin port
<ul style="list-style-type: none"> <li>Max. voltage</li> <li>Max. current</li> <li>Max. power</li> </ul>	120 V <sub>eff</sub> 7.2 A 500 W
Audio outputs (100 V)	SPEAKER OUT: 4 x 12-pin port
<ul style="list-style-type: none"> <li>Max. voltage</li> <li>Max. current</li> <li>Max. power</li> </ul>	120 V <sub>eff</sub> 7.2 A 500 W
CONTROL IN	4 × 10-pin port
<ul style="list-style-type: none"> <li>Control inputs</li> </ul>	<ul style="list-style-type: none"> <li>10 supervised inputs (0-24 V, U<sub>max</sub> = 32 V)</li> <li>10 isolated inputs (Low: U ≤ 5 V DC; High: U ≥ 10 V DC, U<sub>max</sub> = 32 V)</li> </ul>
CONTROL OUT	4 x 10-pin port
<ul style="list-style-type: none"> <li>Control outputs</li> <li>Control relay</li> </ul>	24 Low Power outputs (open collector, U <sub>max</sub> = 32 V, I <sub>max</sub> = 40 mA) 2 (NO/NC relay contacts, U <sub>max</sub> = 32 V, I <sub>max</sub> = 1 A)
Interfaces	
<ul style="list-style-type: none"> <li>CAN BUS port</li> </ul>	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	<ul style="list-style-type: none"> <li>Standby &lt; 250 mA</li> <li>Idle/Announcement/Alert &lt; 800 mA</li> </ul>

### 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 375 mm
Weight (net)	8.2 kg
Mouting	Standalone; 19 in. rack
Color	Black



## 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
Environment	EN 50581
Maritime	EN 60945

### Conformity

Europe	CE/CPR
Environment	RoHS

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### Ordering information

#### **PMX-4R24 Router**

24-zone expansion unit for PROMATRIX system, 2 RU.  
Order number **PMX-4R24**

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[www.dynacord.com](http://www.dynacord.com)

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