

PLE-4TM Plena Tone Module

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BOSCH
Invented for life



- ▶ Evacuation, Alert, Time Signal, and Chime signal generation
- ▶ Microphone pre-amplifier connection with PTT
- ▶ Australian Standard AS2220 and ISO 8201 compliant
- ▶ Signal generation and call station input without sacrificing an input of the mixer

The Plena Tone Module is an extension to the Plena line of equipment, offering the user four different signals to use in an installation.

The first two tones are specifically made to comply with ISO 8201, which is mandatory in areas where installations are required to meet the AS2220.1.2 standard.

Functions

The module is intended to be placed in line with the mic/line 1 input of the Plena Easy Line Range of mixers and mixer amplifiers. In this set up, the tone module is used without sacrificing an input. The original input, i.e. call station, is connected to the tone module. The module feeds this input to the input of the mixer amplifier. When a contact is closed, the input is muted; the PTT contact of the mixer amplifier is closed, and a signal is sounded.

Input Contacts

The tone module has four input contacts to start the following chimes:

- **Evacuation signal** complying with ISO 8201 that consists of a uniformly increasing frequency from 500 Hz to 1200 Hz during the 0.5 s 'on phase' of the signal, with a duty cycle of 50 % –0.5 second on and 0.5 second off.

- **Alert signal** complying with ISO 773.1 that consists of a 420 Hz square wave with an on period of 0.6 s and an off period of 0.6 s.
- **Standardized time signal** consisting of a naturally decaying 400 Hz curve-shaped signal with a repetitive pattern of 1 second.
- **Bosch two-tone chime**, 440 Hz and 554 Hz, triangular, naturally decaying.



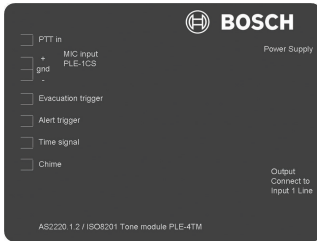
Notice

The four contacts have priority over the microphone.

Switches

The tone module has three dip-switches on the side:

- **Mic.:** to switch between microphone or line sensitivity (on = mic.).
- **16V:** to switch on 16V phantom power supply.
- **Latch:** to switch between momentary (off) and latch or toggle function (off).

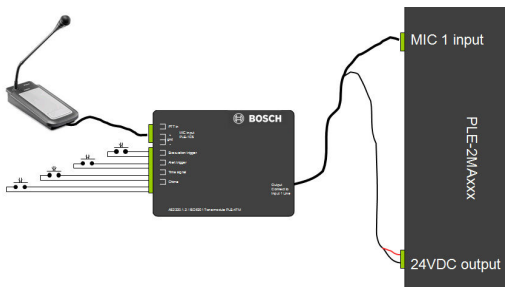


Front and rear panel input and output connections

Interconnection

The tone module has a Euro-style pluggable screw terminal for inputs and triggers. 24 VDC input, and output is provided via flying leads.

The module takes its power from the PLE-2MA120 or PLE-2MA240. It can also use any regulated floating power supply of 12 to 30 Vdc.



Connection diagram

Certifications and Approvals

Safety	acc. to EN 60065
EMC emission	acc. to EN 55103-1
EMC immunity	acc. to EN 55103-2
Region	Certification
Europe	CE

Parts Included

1	PLE-4TM Plena Tone Module
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Technical Specifications

Electrical

Power supply	
Voltage range	18-24 V AC or DC (supplied by PLE-2MAxxx)
Supplied Power Supply	24 VDC (from mixer amplifier)
Current consumption (typical)	<500 mA
Connectors	
Interconnection	2 x Euro-style pluggable screw terminals

Power Supply	1 x Jack
Input Contacts	4 x on the screw terminals

Performance

Nominal sensitivity	
Microphone	1 mV
Line	200 mV
Nominal output level	1000 mV
Frequency response	20 Hz to 20 kHz (+1/-3 dB @ -10 dB ref. rated output)
Output impedance	200 Ohm

Mechanical

Dimensions (H x W x D)	120 x 100 x 30 mm (4.72 x 3.94 x 1.18 in)
Weight	Approx. 0.5 kg (1.10 lb)
Color	Charcoal

Environmental

Operating temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

Ordering Information

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an extension to the Plena line of equipment, offering the user four different signals to use in an installation
Order number **PLE-4TM**

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