



PLE-4TM Plena Tone Module



- ▶ **Evacuation, Alert, Time Signal, and Chime signal generation**
- ▶ **Microphone pre-amplifier connection with PTT**
- ▶ **Stereo line input with priority switchover**
- ▶ **Australian Standard AS2220.1.2 and ISO 8201 compliant**
- ▶ **Signal generation and line 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 chimes 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, including the PTT (push-to-talk switch). 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.

Note The four contacts have priority over the microphone.



Front and rear panel input and output connections

Interconnection

The tone module has two Euro-style pluggable screw terminals for input and output signals. A 24 VDC input socket is provided on the front side.

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.

Certifications and Approvals

Safety	acc. to EN 60065
EMC emission	acc. to EN 55103-1
EMC immunity	acc. to EN 55103-2

Parts Included

1	PLE-4TM Plena Tone Module
1	Power supply
1	Application Note

Technical Specifications

Electrical

Power supply

Voltage range	18-24 V AC or DC (supplied by PLE-2MAxxx)
Supplied Power Supply	24 VDC (included)
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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