COMPACT ONE

Integrated Voice Alarm System

COMPACT-**ONE is the Shiratech's all**-in-one solution for demanding emergency sound applications and voice evacuation that require operational simplicity, ease of installation, budgetary price and fulfilment to the EN54 European Standard.

Proven performance

COMPACT-ONE is an off the shelf integrated emergency sound system, leading in performance, ease of installation, use and reliability.

The ideal solution

COMPACT-ONE was designed for all buildings and facilities where fire alarm systems and evacuation needs are limited to a single zone, but thanks to its networking features, several units can live together in a master-slave operation on more complex installations where additional zones are needed.

COMPACT-ONE is the ideal solution for schools, halls, supermarkets, motels, railway stations, hospitals, and in general all small buildings opened to the public.

The unit integrates an **EN54-16 automatic voice evacuation system and an EN54-4 backup power supply** in a

wall mountable steel enclosure. Nothing else is needed: no complex configuration and installation, no endless commissioning, no engineering skills. Just take it out of the box, hang it to the wall, make few connections and the unit is fully operational!

The unit can trigger recorded evacuation messages from the fire alarm equipment, or live messages can be spoken through the integrated PTT style microphone. Access to the security and fire alarm features system is protected by a key-lock

COMPACT-ONE is not just a fire alarm device: it features a background music input, an external microphone input for general announcements, a set of contacts to trigger general purpose recorded messages. Its powerful software features also allow to schedule user selectable recorded announcements.

Its powerful **DSP architecture** and its **300W Class-D integrated amplifier** will clearly bring your emergency message in the widest hall, building or facility.

Integrity and clarity: always!

COMPACT-ONE voice evacuation system is fully supervised according to EN54-16 and EN54-4 standards to ensure spoken or recorded messages integrity by constantly monitoring the operation both audio, power and control path, from the microphone capsule, to the loudspeaker line.

COMPACT-ONE was designed with a Hi-Fi mindset, because the quality and intelligibility of your recorded or live alarm message and background music is a key feature you can't renounce.

In-house design, no compromise manufacturing

COMPACT-ONE is totally designed and manufactured by an in-house team of skilled engineers and product experts. We are proud of the know-how we have gained but constantly outlook to increase our knowledge. Our products are manufactured in our facility under the strictest factory process control as prescribed by the EN54-4 and EN54-16 certifica-

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	COMPACT-ONE K1240/O	COMPACT-ONE K1240/S
Main power source	AC mains 220V - 50/60Hz	
Backup power source	48V – built-in batteries (4x 12V 7,2A/h sealed lead acid)	
Backup power unit life	36h stand-by + 0.5h full power	
Maximum power consumption	350W	
Rated Output power	Single zone 300W rms @ 1% THD on 100V loudspeaker line	
Frequency response	100Hz – 18Khz @ -3dB	
Signal to noise ratio	>90dB	
Redundant power amplifier	No	Yes
Redundant loudspeaker line	Yes (Line A, Line B)	
Loudspeaker line monitoring	Line A and Line B independent 18 KhZ FFT impedance measurement +/-5% range. Detection of line cut, line short, line grounding	
User interface	Status leds + dot-matrix display, menu navigation keyboard, direct access status keys (alarm, warning, silencing)	
Audio processing	DSP based, 16bit-48Khz; 3-band equalizer, Compressor/expander on microphone inputs; Pre-gain and master volume controls; Chime	
Audio inputs/outputs	Background music; microphone input with phantom supply and enable contact input. Subwoofer line output	
Front panel loudspeaker monitor	YES	
Emergency Firemen microphone	Frontpanel PPT microphone with monitored capsule RJ14 input for WG-MTU01 desktop emergency call station	
General input controls	8x dry contact inputs triggers for general announcement messages	
General message scheduler	YES	
Input controls from fire alarm devices	3x monitored input contacts against cable-cut and cable short. Alarm, warning, silencing	
Output status reporting	2x 1A 230V relay contacts (alarm, fault)	
Communication	RS485, RS232 diagnostic port, RJ45 10 BASE-T/100	
Battery monitoring	Internal resistance DC measurement	
Certifications and compliancy	EN54-16, EN54-4	EN54-16, EN54-4, BS-EN5839-8, 60849
Access restriction	Key-locked front door, password protected access to system menu	
Chassiss, dimensions and weight	Steel, powder coated – 12Kg batteries included. Width 440mm, Height 11 Rack units (490mm) – Depth 150mm	

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All specifications are subject to change without notice