DATA SHEET
VOCIA® LSI-16e
ENHANCED LIFE SAFETY INTERFACE

The Vocia® enhanced Life Safety Interface 16e (LSI-16e) is a networked device that serves as an interface between a Vocia system and emergency or fire alarm systems. The LSI-16e may accept up to three sources of power: main power is from an external, standards compliant, battery backed 24V DC source but the LSI-16e can also utilize Power over Ethernet (PoE) delivered via either of its two network ports. The device is equipped with parallel I/O ports for direct interface to fire and emergency control equipment. The LSI-16e uses Ethernet-based control protocols to function within a Vocia system.

FEATURES

- Parallel I/O ports for direct interface with fire alarm and emergency equipment
- 8 monitored I/O and 8 control inputs
- Redundant network connection and power supply options
- Power and data over a single Ethernet cable
- Web interface for emergency device reporting
- Local storage of configuration data
- Rotary switches for unit identification
- Up to 4 discrete emergency inputs
- 16 additional general purpose inputs can be programmed to play an emergency message, enable zone reset or zone silence; maximum of 10 inputs can be assigned per emergency zone
- Each general purpose input can be programmed as TTL, high range or monitored high range
- General purpose inputs allow monitoring for short to ground and open circuit
- Up to 500 virtual inputs via RS232 or Ethernet
- Provides system health monitoring via RS232 or Ethernet
- Status LEDs
- Rack mountable (1RU)
- EN 54-16 certified, CE marked, UL listed and RoHS compliant
- Covered by Biamp Systems' 5-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The life safety interface shall be designed exclusively for use with Biamp® Vocia systems. The life safety interface shall provide a networked emergency interface to third-party emergency and alarm systems. It shall have redundant power supply and network connections. The life safety interface shall be powered from a certified 24V DC power source or over Ethernet (PoE) via either of two network ports. The life safety interface shall have eight monitored I/O and eight control inputs. The life safety interface shall offer up to 20 discrete emergency inputs, 16 of which shall be programmable to play an emergency message, enable a zone reset or zone silence. The life safety interface shall provide up to 10 inputs per emergency zone. The life safety interface shall be EN 54-16 certified, shall be CE marked, UL listed and shall be compliant with the RoHS directive. Warranty shall be five years. The enhanced life safety interface shall be a Vocia LSI-16e.

VOCIA LSI-16e SPECIFICATIONS

Network Connection:	RJ-45 with shielded Ethernet (CAT5, CAT5e, CAT6 or CAT7
System Fault Relay:	
Type:	Single Form C voltage-free SPST change-over contact
Load:	Resistive
Max Operating Voltage:	125VAC, 60VDC
Max Operating Current:	600mA AC, 1A DC
Max switching capacity:	37.5VA, 30W
Min permissible load:	10µA @ 10mVDC
Control Inputs:	
Number:	Eight
Type:	Opto Isolator LED
Cathode presented at input – pull low to enable	
Sink Current:	
Min:	1mA
Max:	6mA
Maximum Terminal Voltage:	24V
Isolation:	3kV
General Purpose Inputs:	
Number:	16
High Range Logic Low:	0-11VDC
High Range Logic High:	12-30VDC
High Range Hysteresis:	1V ± 20%
TTL Logic Low:	0-0.8V
TTL Logic High:	2-5V
TTL Hysteresis:	1V ± 20%
Input Transient Protection:	± 8kV peak
Input Isolation:	500V RMS (isolation from LSI-16)

Monitored I/O:	
Number:	Eight
Type:	FET switch, open drain (low side driver)
Max Continuous Current:	0.35A
Current Limit:	0.8A
Maximum External Supply:	35V
VMon Input Shutdown:	35V
RS232 Port:	
Type:	DTE
Baud Rate:	57600
Power:	
Main:	24V DC 15W
PoE:	802.3af Class 3
Overall Dimensions:	
Height:	1.75 inches (44.5 mm)
Width:	19.0 inches (483 mm)
Depth:	10.0 inches (254 mm)
Weight:	6.4 lbs (2.9 kg)
Environment:	
Ambient Operating Temperature Range:	23-104° F (-5 – 40° C)
Humidity:	0 – 95% non-condensing
Altitude:	0-10,000 Feet (0-3000 Meters) MSL
Compliance:	
	EN 54-16 certified
	FCC Part 15B (USA)
	CE marked (Europe)
	UL and C-UL listed (USA and Canada)
	RoHS Directive (Europe)
	RINA (Italy)
	EN 60849, AS 60849 verified

VOCIA LSI-16e BACK PANEL