3L-SP
Supervising Panel of Early Warning Leak Locating System

ELSA ADVANCED SYSTEMS

3L-SP is a **Supervising Panel** of Early Warning Leak Locating System.

(3L-SP SYSTEM PRODUCT OVERVIEW)

General features of ELSA control panel - 3L-SP

• Maximum number of 3L-LP, 3L-AP and/or 3L-DP leak location panels	:	100 panels
• Maximum accumulated length of sensing cable	:	200km
• Maximum accumulated length of communication cable	:	3,500m
• Display	:	Backlight with LCD of 4 lines x 20 English characters
• Sound Alarm	:	90dB max. buzzer with silencing button
• System Menu	:	Access to Event Log, System Reset, Language Change, Configuration Mode
• Time to display Leak/Cablebreak from supervised panel	:	18 seconds typical
• Supervised Panels Identification	:	By different name up to 35 characters
• Panel names setup	:	Input by PC software
• Event Log	:	896 Time-stamped Events stored in non-volatile memory, First-In-First-Out in case of overflow
• Mechanical dimensions	:	Rugged ABS UL-V0 case of 220 x 145 x 55mm
• Ingress Protection	:	Dust- and splash-proof IP65

Environmental ratings

• Operating temperature	:	-10 to 50 degree C (indoor installation)
• Storage temperature	:	-20 to 70 degree C
• Humidity	:	5% to 95% non-condensing

Power requirements

● Power Supply	:	230 +/- 15% VAC, 50/60 Hz
● Optional Input	:	115 VAC/50-60 Hz or 12 to 30 VAC/DC power input
● Power consumption	:	8 VA/6 W max.

Power relay switching characteristics

● Trouble Dry Contact	:	Operation - SPDT
		Switching current - 0.5A at 125VAC, 1A at 30VDC
● Liquid Leak Dry Contact	:	Operation - SPDT
		Switching current - 0.5A at 125VAC, 1A at 30VDC

Supervising channel

● Physical support	:	RS485-two-wire, ESD and surge protected as per IEC 61000-4-2
● Protocol	:	Modbus

Serial communication interface to external supervisor

● Physical support	:	RS485-two-wire, ESD and surge protected as per IEC 61000-4-2
● Protocol	:	Modbus

- ● Optional GSM/GPRS transmitter interfacing
- ● Optional TCP/IP interface with SNMP traps generation and Modbus over TCP/IP
- ● Optional BACnet/IP interface
- ● Optional Profibus interface
- ● Optional LONworks interace

Compliance to International safety standards:

● EMC emission	:	EN 61000-6-3(2001)-Electromagnetic compatibility. Generic emission standard for residential, commercial and light industrial environments.
● EMC immunity	:	EN 61000-6-1(2001)-Electromagnetic compatibility. Generic immunity standard for residential, commercial and light industrial environments.