ELSA SUPERVISING PANEL
3L-SP/DP

3L-SP/DP is an advance supervising panel of Early Warning Leak Locating System

GENERAL FEATURES:

- Maximum number of 3L-AP/ 3L-DP/ 3L-NDP : 99 panels leak location panels added externally
- Maximum accumulated length of sensing cable : 20,000m [200m (internal) + 99 x 200m (external)]
- Precision to locate leak location : +/-1m or 0.5%
- Failsafe operation : Ability to operate in loop operation
  Ability to detect liquid leakage during cable break
- Display : Permanent 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, Configuration Mode
- Time to display Leak/Trouble from supervised panel : 18 seconds typical
- Liquid Leak detection data : Typically 20mm in length of liquid (e.g tap water) in full contact with sensing cable, leak sensitivity is adjustable
- Supervised Panels Identification : By different panel number and name with up to 35 characters
- Panel names setup : 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-VO case of 222 x 146 x 55mm
- Ingress Protection : Dust-and splash-proof IP 65

ENVIRONMENTAL RATINGS

Operating temperature	:	0 °C to 40°C (indoor installation only)
Storage temperature	:	-20°C to 70°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/3 W maximum

POWER RELAYS SWITCHING CHARACTERISTICS

Cable break/power failure by contact (1 relay)	:	Operation – SPDT Switching current – 0.5 A at 250 VAC, 1A at 30 VDC
Liquid leakage dry contact	:	Operation – SPDT Switching current – 0.5 A at 250 VAC, 1A at 30 VDC

SUPERVISING CHANNEL

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

SERIAL COMMUNICATION INTERFACE

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

Optional GSM/GPRS transmitter interfacing
Optional Modbus over TCP/IP (allow world-wide remote supervision through Internet connection)
Optional BACnet/IP interface
Optional Profibus interface
Optional LONworks interface

COMPLIANCE TO INTERNATIONAL STANDARDS

EMC emission	:	IEC61000-6-3(2001) – Electromagnetic compatibility Generic emission standard for residential, commercial and light industrial environment
EMC immunity	:	IEC61000-6-1(2001) – Electromagnetic compatibility Generic immunity standard for residential, commercial and light industrial environment

3L-SP/DP DIMENSIONS