



## ELSA SUPERVISING PANEL 3L-SP/DP

3L-SP/DP is an advanced supervising panel  
Of Early Warning Leak Locating System

### GENERAL FEATURES:

- Maximum number of Control panels : 99 panels leak location panels added externally
- Supported Control panels : 3L-SP/AP; 3L-DP; 3L-ADP; 3L-NDP
- Maximum accumulated length of sensing cable : 20,000m [200m (internal) + 99 x 200m (external) ]
- Precision to locate leak location : +/-1m or 0.5%
- Redundancy : Fail-Safe Loop Back or Token Ring connection feature built-in.  
(continues to detect leaks even cable break at 1st meter of sensing cable).
- 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 : 110 to 240 VAC, 50/60 Hz  
Optional input : 12 to 30 VAC/DC power input  
Power consumption : 8 VA/3 W maximum

## POWER RELAYS SWITCHING CHARACTERISTICS

Cable break/power failure by contact : Operation – SPDT  
(1 relay) 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

