

SYNCR0, SOLO AND MX4000 LINE EQUIPMENT

All the line equipment for the above systems uses Enhanced Systems Protocol (ESP). This is the communication medium between the control panel and line equipment. ESP is immune to noise and other loop communication problems, this eliminates false alarms due to data corruption.

DETECTORS, BASES AND SOUNDERS

TSALGE OPTICAL DETECTOR

This innovative detector incorporates 'flat response technology' making it as sensitive as an ionisation detector whilst maintaining the accuracy and user friendliness associated only with an optical. It can effectively replace the less reliable ionisation detectors in most situations. A disposable chamber simplifies maintenance.

TSAIEE IONISATION DETECTOR

These are best for detecting clean burning fires and are also used in cigarette smoking areas.

TSACBE HEAT DETECTOR

The heat detector is particularly suited to environments with high ambient temperatures or where smoke sensors are unsuitable. The control panel receives accurate temperature readings from the detector and calculates the necessary fixed temperature and rate of rise functions as required by the appropriate standards. The panel allows either the heat element or the rate of rise element or both elements to make the fire decision.

TSACBEW IP67 version of the TSACBE Heat detector. Supplied with fixing plate. Flying leads connect directly to the loop. Use **TSMBB1** moisture and dust proof back box

TSACAE MULTI-SENSOR

The Multi-sensor houses the optical detector and the heat detector in the same unit. This enables its sensitivity levels to be varied by selecting different modes on the detector.

TSYBNR3 COMMON MOUNTING BASE

An electronics free base with an anti-tamper mechanism is available. A recessed base adaptor is also available allowing detectors to be flush mounted on the ceiling.

Connection Terminal	Function
1 & 2	Loop +ve
3	Earth terminal

4	Remote LED
5 & 6	Loop -ve

FEATURES OF DETECTORS

- Low profile, stylish design
- Twin LEDs allow 360° viewing
- Common mounting, anti-tamper base
- Contamination compensation
- ESP compatible

ADDRESS SETTING

Each sensor has its ESP loop address set between 1 and 127. The address can be changed from the factory default using a compact hand-held programmer. This removes the need to set DIL switches and is a quick and reliable solution to address setting. The TSASX programmer also has the diagnostic ability to display analogue value.

TSCHQBS LOOP SOUNDER

The loop sounder is a compact unit with base that may be driven continuously or synchronised to pulse with the other sounders on the loop. It is designed to form one unit with a detector at one address thus reducing wiring time and cost.

- Solid state addressing
- Selection of tones available
- BESA box and wall mounting options

TSCHQWS WALL LOOP SOUNDER

Internal use electronic sounder produces a high output of up to 100dB(A) with a low current consumption of around 7mA. Fully addressable, this stand-alone unit is wired on the detection loop. Tone is compatible with TSCHQBS (default tone only). Addressed via the hand held programmer

TSCHQWS/W WEATHERPROOF WALL LOOP SOUNDER

External use variant of the TSCHQWS. Weatherproof to a rating of IP66.

N.B. Loop loading should always be checked in advance with technical support

SPECIFICATIONS FOR DETECTORS AND SOUNDERS

	TSALGE	TSAIEE	TSACBE	TSACAE	TSCHQBS
Stand by current: <i>Low power mode</i> <i>Normal</i>	120µA 310µA	140µA 350µA	90µA 350µA	120µA 450µA	40µA 220µA
Operating temp	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C
Max humidity	95%RH – Non condensing (at 40°C)				
Colour	Ivory white	Ivory white	Ivory white	Ivory white	Ivory white
Dimensions (mm) <i>dia x h (base incl)</i>	100 x 46	100 x 46	100 x 48	100 x 52	100 x 68 (fitted with ALGE)
Weight (kg)	0.1	0.1	0.1	0.1	0.2
Approvals	EN54 Part 5 and Part 7				

TSCHQMZ SINGLE TRIGGER ZONE INTERFACE, BOXED

A single monitored circuit input interface normally used to control one conventional trigger circuit. Powered from the loop, the circuit may carry an unlimited number of call points and a maximum of six conventional detectors. If detector removal monitoring is required, the call points must be fitted before the detectors on the circuit.

TSCHQZ DUAL TRIGGER ZONE INTERFACE, BOXED

A dual monitored circuit input interface normally used to control two conventional trigger circuits. Powered from a separate 24V source, the circuits may carry an unlimited number of call points and a maximum of thirty conventional detectors each. If detector removal monitoring is required, the call points must be fitted before the detectors on the circuit.

TSMIOUBB 8 WAY INPUT & OUTPUT UNIT, BOXED

A fully programmable multiple interface with 8 opto-isolated inputs and 8 outputs. The outputs can be individually programmed and selected as normally open, normally closed or switched voltage. The unit occupies only one address on the loop and requires a separate 24V supply.

TSCHQB DUAL SOUNDER CIRCUIT CONTROLLER, BOXED

Controls conventional alarm line circuits. A separate 24V supply is required. Each of the alarm line outputs can be separately

programmed and are independently fused. A monitored input circuit is also provided.

TSCHQR DUAL SWITCH RELAY OUTPUT/SINGLE INPUT INTERFACE, BOXED

Used for relay outputs to other systems such as intruder alarms, plant, etc. Powered from the loop the outputs can be separately programmed. A monitored input circuit is also provided.

TSCHQSI0 SINGLE MAINS RELAY OUTPUT/SINGLE INPUT INTERFACE, BOXED

Switches off the mains equipment that is on the alarm system such as door release, plant, etc. Powered from the loop, the relay is fully programmable. A monitored input circuit is also provided.

TSCHQS DUAL SWITCH INPUT INTERFACE, BOXED

Used for relay inputs from other systems such as sprinklers, gas systems, etc. Powered from the loop, both inputs can be normally open or normally closed type.

TSYBORSCI SHORT CIRCUIT ISOLATOR

In the instance that a fault should occur on the detector loop, short circuit isolators ensure that the rest of the loop continues to function. It is designed to be a base for a detector, thus saving time and materials, but may be fitted as a stand-alone unit with a cover (Part No. TSSIBC). It does not take up an address on the system.