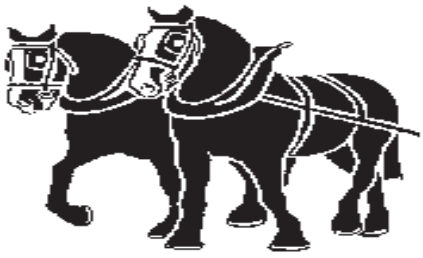
Alarm Signal Status Unit for the SDX-15 alarm system



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About this manual.

When you see this symbol, the associated text in **bold type** refers to something which may cause danger or damage.

The Alarm Signal Status Unit is a low cost means of complying with C11 & HTM2022 requirements for indication of alarm status in plant rooms, manifold rooms & VIE compounds. It is mounted in a clear fronted polycarbonate enclosure, protected to IP65, suitable for use in external locations without further protection. It consists of the following:-
Lamps indicating four alarm conditions + normal, Power On and System fault.
A one gas transmitter suitable for use with the Medcon data transmission system as used by the SDX-15 alarm system.
Four relays, providing volt-free, normally closed contacts for connection to other alarm systems, BMS systems etc.
A battery reserve to power the unit for a minimum of 4 hours in the event of power failure.

The ASSU monitors the wiring from plant to ASSU via termination boards mounted in or near the plant, checking for short or open circuits of the cable. If a fault is detected on the contact lines, an alarm condition is transmitted for the condition relating to the faulty line, and the system fault lamp will flash.

The system fault lamp will also flash if the ASSU fails to receive signals from a central alarm or in the event of a mains power failure. Selecting channel F inhibits the system fault resulting from a loss of signals from a central alarm.

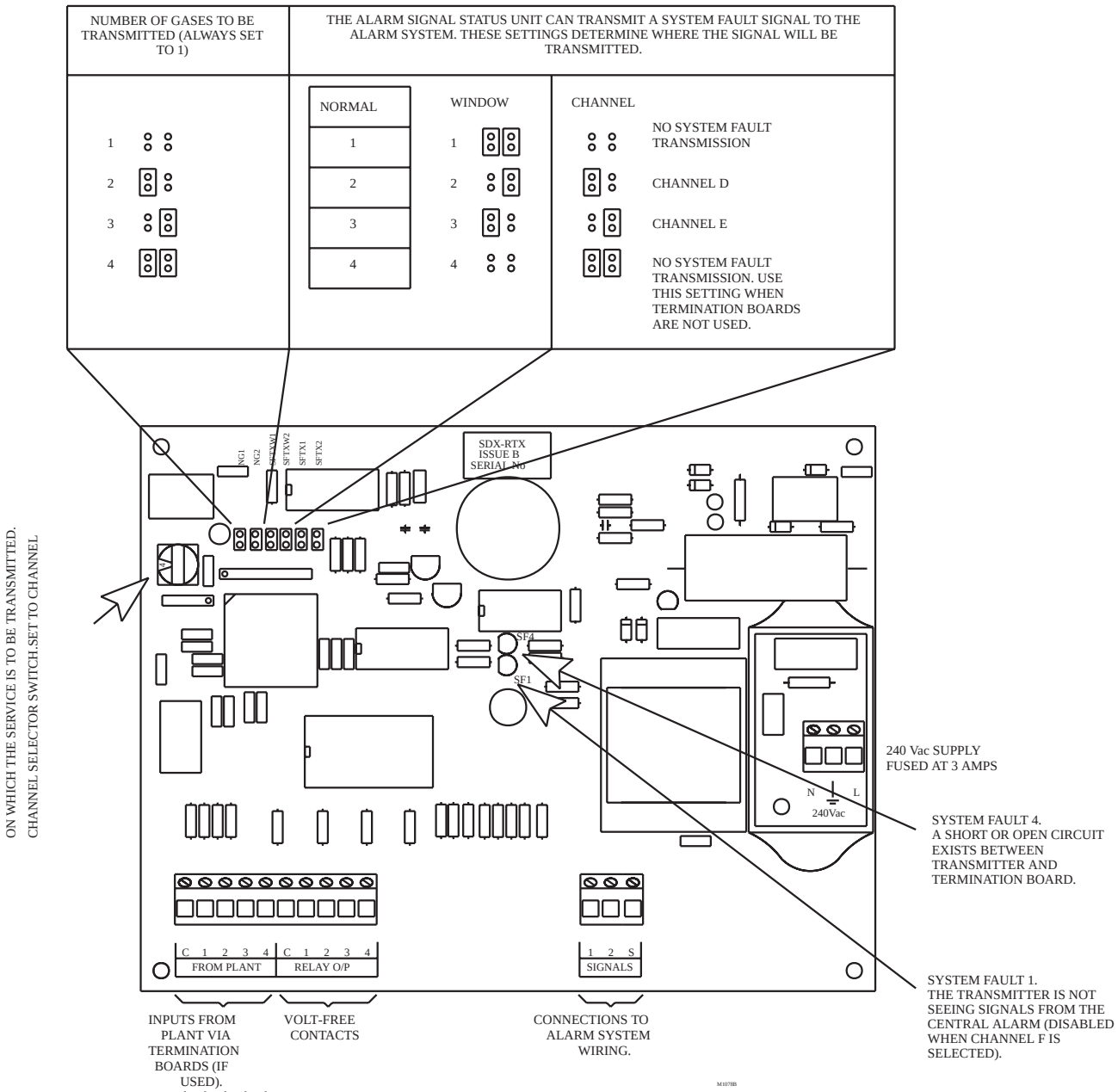
The channel on which the service is to be transmitted is selected with a 16 way rotary switch. Each service on the system is allocated a channel when the system is initially set up, this being entered on the log sheet. The alarm contacts on the plant or manifold are connected via the termination board to the input terminals on the ASSU as follows:-
C Common
1 First condition
2 Second condition
3 Third condition
4 Pressure fault

Any condition not transmitted from this ASSU must be terminated with a 56k resistor to set the condition to normal if the condition is not to be used, or with a lk8 resistor if the condition is to be transmitted from another location. The resistors are used to prevent a system fault due to short or open circuit. Note that if a resistor is fitted, the condition must NOT be connected to the termination board. Resistor codes:-
1k8 brown grey red silver, gold or red
56k green blue orange silver, gold or red

It is important to ensure that any condition is only transmitted from one location although other conditions on the service may be transmitted from other transmitters.

WARNING. This equipment is not suitable for connection to an IT power system. A readily accessible means of disconnecting the supply must be provided. The maximum prospective fault current must not exceed 1500 amps

A 240 volt, 50/60 Hertz supply is required, which is connected to the mains supply terminals . The 2 core inter-panel wiring is connected to signal terminals 1 & 2. The cable screen must be connected to the "S" terminal.



ALARM SIGNAL STATUS UNIT