

RTX1 Transmitter for the SDX-15 Plant Alarm System

About this manual.



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

Transmitters introduce signals from plant etc. onto the multiplexed signal wiring. The RTX1 is designed to be mounted within the same enclosure as the alarm contacts when used for medical applications, as cable monitoring is not used.

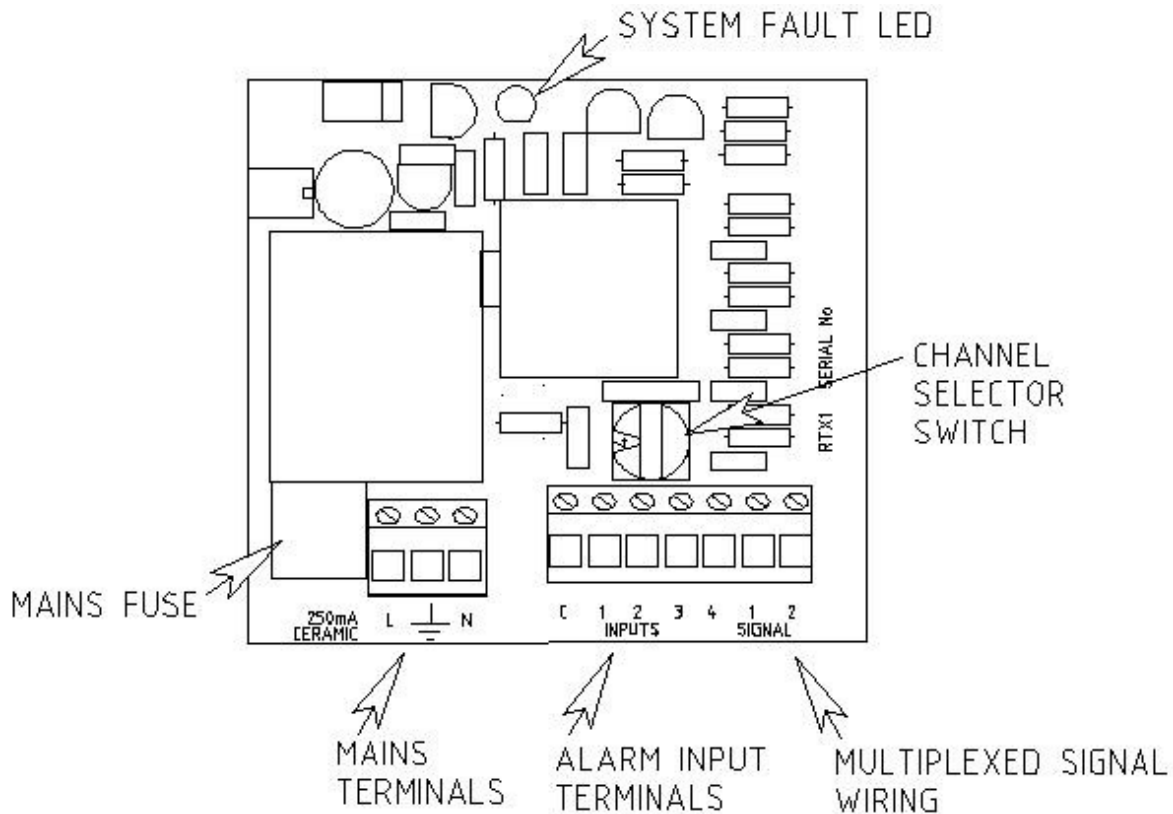
The RTX1 is a self contained unit, used where indication of the alarm condition is not required locally, e.g. when a manifold or plant has an integral plant to alarm interface, and is available as a one gas (4 condition) unit. The service is selected, as in the alarm panel, with a rotary switch. Each 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 to the transmitter as follows:-C Common 1 First condition 2 Second condition 3 Third condition 4 Forth condition For example, if Oxygen is allocated channel 1, this plant could be connected to the alarm input terminals on the transmitter, which would then be set to channel 1. Any condition not transmitted from this transmitter must be linked out to set the condition to normal if the condition is not to be used, or left open circuit if the condition is to be transmitted from another transmitter. 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.

The red System Fault LED will flash if the RTX1 does not see the signals from the central alarm on the system, either because of a cable fault or because no central alarm is installed. In this case, all alarm conditions will default to alarm.



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 earth.





DECLARATION OF CONFORMITY

EU EMC Directive 2014/30/EU
 UK Electromagnetic Compatibility
 Regulations 2016 SI 2016 No.1091
 The Low Voltage Directive 2006/95/EG
 Medical Devices Directive 93/42/EEC

Manufacturer

Shire Controls Ltd
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Product Type

Part Of SDX-15 Plant Alarm System
 Which Includes RTX1 Transmitter

Year of manufacture 2023

Authorised representative

Director

Signature

Standards used (2019)

To which this declaration relates is in conformity with
 the following standards:

- EN60601-1-2 4th Edition 2015**
Emissions Standard for Medical Equipment
- EN55011, Class A 2016**
Emissions Standard for ISM Equipment
- EN60601-1-2 4th Edition 2015**
Immunity Standard for Medical Equipment
- EN61000-4-2 2009**
ESD Requirements
- EN61000-4-3 2006 + A1 + A2**
Radiated Susceptibility
- EN61000-4-4 2016**
Electrical Fast Transient Burst Requirement
- EN61000-4-5 2017**
Surges Requirements
- EN61000-4-6 2014**
Conducted Susceptibility
- EN61000-4-8 2012**
Magnetic Field Immunity
- EN61000-4-11 2017**
Voltage Dips and Interruptions

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