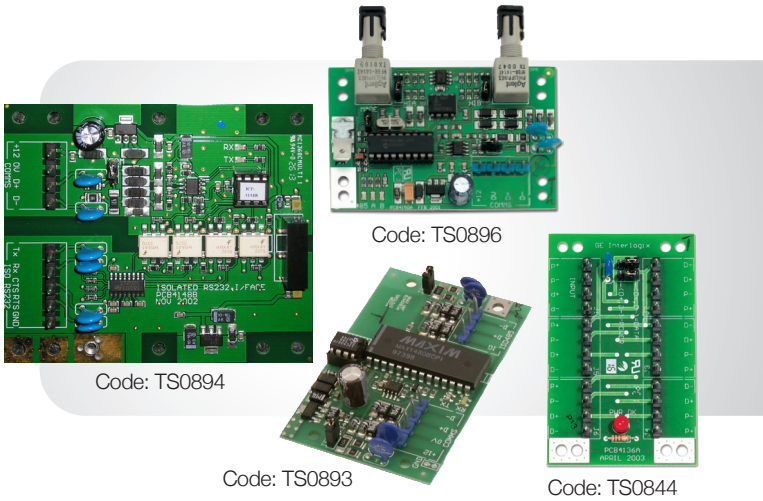
TS08-series LAN devices

Power distribution and LAN interface boards



Code: TS0896

Code: TS0894

Code: TS0893

Code: TS0844

Overview

TS08-series LAN devices provide solutions for typical cabling issues facing installers.

Additional terminals for RS-485 LAN and/or power connections

Use TS0844 Power Distribution Boards for a tidy way to connect cables to the Challenger panel or Intelligent Access Controller.

There are two operating modes. In data mode you have five sets of terminals for RS-485 LAN and power (typically used for 'star' LAN configurations). In power mode you have ten sets of power-only terminals. The TS0844 helps keep wires in place and easily traceable back to their source.

The TS0844 has a Tecom 'B' board footprint for mounting in existing Tecom enclosures.

Isolate or extend the RS-485 LAN

If the RS-485 LAN extends to more than one building, each building must have its own earth system. LAN isolation devices, such as TS0893 LAN Isolation Interfaces, are used to isolate the LAN between buildings to protect the system against differences in earth potential.

TS0893 modules can also be used as repeaters to extend the length of the Challenger LAN cabling beyond the standard 1,500 m. Up to three TS0893 modules can be used in series to provide 6,000 m.

The TS0893 has a Tecom 'B' board footprint for mounting in existing Tecom enclosures.

Connect a Challenger panel to LAN devices or management software computers over an extended distance or via modem.

Use TS0894 Isolated RS-232 to RS-485 Interfaces to convert data from Challenger panels between RS-232 and RS-485 levels for use with leased line modems and/or for distant or multi-drop control panels.

For example, a Challenger panel's RS-232 output (may require a suitable interface module) can be converted to RS-485 for long-distance transmission. A second TS0894 module within 1.5 km cabling distance is used to convert the signal back to RS-232 for connection to a computer.

Alternatively, a Challenger panel's RS-485 LAN can be converted to RS-232 for connection via modem and PSTN or leased telephone lines. A second modem and TS0894 module is used to convert the signal back to RS-485 for connection to a remote DGP (also providing electrical isolation).

The TS0894 has a Tecom 'B+' board footprint for mounting in existing Tecom enclosures.

Carry Challenger LAN data over optical fibre infrastructure

Use TS0896 RS-485 LAN to Optical Fibre Interfaces to provide either single or dual optical fibre connections to remote LAN devices. For fault diagnosis, the board has LEDs to indicate the status of the RS-485, Port A, and Port B connections. TS0896 modules also provide electrical isolation between components on a Challenger LAN.

The TS0896 has a Tecom 'B' board footprint, and can be mounted in its enclosure (supplied) or in existing Tecom enclosures.

Tip: If you need to carry Challenger LAN data over Ethernet infrastructure, refer to the TS0098 Challenger IP LAN Adaptor data sheet.

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Specifications

TS0844 Power Distribution Board	
Supply voltage	9 to 14 VDC
Dimensions	50 mm x 79 mm
Data mode	Five sets of terminals for LAN and power
Power mode	Ten sets of terminals for power only
Operating temperature	0 to 70°C
TS0893 LAN Isolation Interface	
Supply voltage	9 to 14 VDC
Operating current	90 mA
Electrical isolation barrier	1500 VRMS optical isolation
Maximum distance from panel	1.5km
Dimensions	89 mm x 79 mm
Operating temperature	0 to 70°C
TS0894 Isolated RS-232 to RS-485 Interface	
Supply voltage	10.5 to 13.8 VDC
Operating current	100 mA
Maximum distance from panel	1.5 km
Dimensions	89 mm x 79 mm
Operating temperature	0 to 50°C
TS0896 RS-485 LAN to Optical Fibre Interface	
Supply voltage	10.5 to 13.8 VDC
Operating current	60 mA
Maximum distance from panel	1.5 km over RS-485
Dimensions	89 mm x 79 mm
Operating temperature	0 to 50°C
Fibre size	62.5 / 125 µm Compatible with 50/125 µm, 100/140 µm, and 200 µm Plastic-Clad Silica (PCS) Fibre
Wavelength	850 nm
Distance	1.5 km

Ordering information

TS0844	Power Distribution Board
TS0893	LAN Isolation Interface
TS0894	Isolated RS-232 to RS-485 Interface
TS0896	RS-485 LAN to Optical Fibre Interface

Specifications subject to change without notice.
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