

## Head Office

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ISO 9001: 2000

International  
Standards  
Certifications  
QAC/R61/0051

## Product Overview:

The **Pertronic Loop Cable Tester** is a tool for testing loop wiring in analogue addressable fire alarm systems. It is designed for validating new loop cabling prior to connecting to a fire alarm panel, and for testing and fault-finding loops on existing systems.

The test set comprises two compact modules: the Power Module and the Load Module. It is supplied in a carry case.

The **Loop Cable Tester** has been developed because standard instruments such as multimeters cannot be used for testing continuity or earth leakage on an analogue addressable loop. Some unpowered addressable devices break the loop into a series of isolated sections. The test set overcomes this difficulty by powering up the loop devices. With all devices powered up and drawing quiescent current only, the loop should behave similar to a pair of wires.

The Power Module checks earth isolation, provided it is connected to the same mains earth as the fire alarm panel.

The Load Module checks for continuity and voltage drop. For any setting of the load switch, if the voltage at the Load Module falls below 15 Volts, the Load Module indicates a test fail.



**Loop Cable Tester**

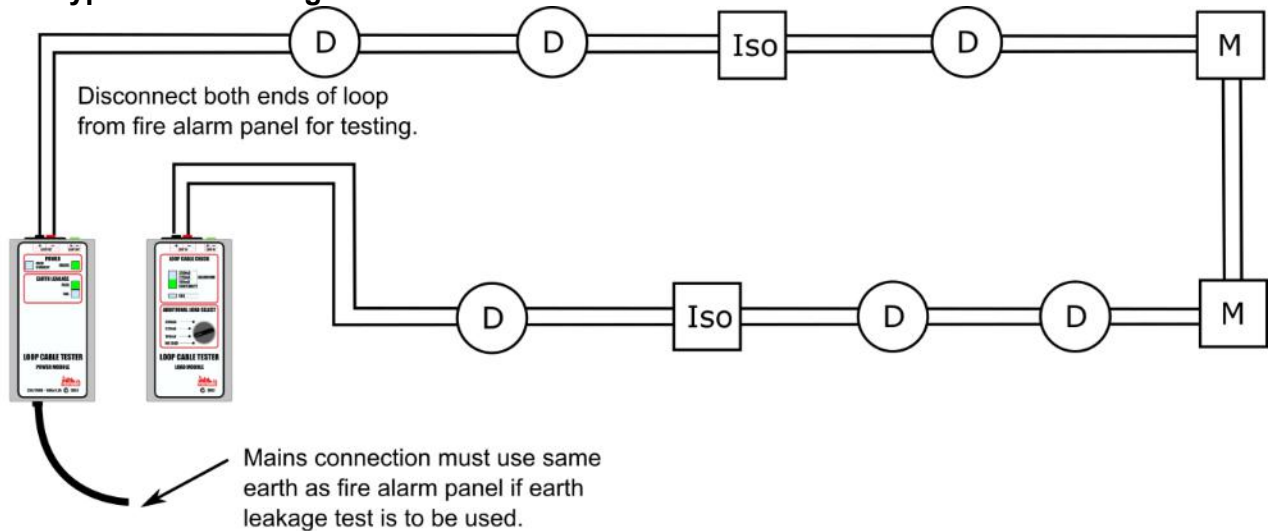
## Features:

- ▶ Separate power and load modules facilitate testing:
  - ▶ A complete loop, with both modules at the same location.
  - ▶ Part of a loop, or a spur, with the modules at separate locations.
- ▶ Each module has a pair of clamps for bare wire loop connections, as well as a two-pin connector for plug-in loop connection.
- ▶ **Power Module**
  - ▶ Mains LED (Green).
  - ▶ Over Current LED (Red).
  - ▶ Earth Leakage Pass & Fail LEDs (Green & Red).
  - ▶ Mains power lead.
- ▶ **Load Module**
  - ▶ Four-position Load Select rotary switch.
  - ▶ Continuity LED (Green).
  - ▶ Three-level Loop Check LEDs (Green): 100 mA, 225 mA, 350mA.
  - ▶ Loop Check Fail LED (Red).

**Specifications:**

- ▶ **Power Module**
  - ▶ Dimensions 206 x 100 x 40 (Length x Width x Depth mm)
  - ▶ Output Voltage 24 Vdc.
  - ▶ Over Current Threshold 600 mA
  - ▶ Earth Leakage Warning Threshold 1 MΩ between mains earth and either loop wire (Both Red and Green LEDs light up)
  - ▶ Earth Leakage Fail Threshold 500 kΩ between mains earth and either loop wire (Red LED lights up)
- ▶ Mains Power Supply 240 VAC 50 Hz, <0.2 Amp
- ▶ **Load Module**
  - ▶ Dimensions 206 x 100 x 55 (Length x Width x Depth mm)
  - ▶ Loop Check Fail Threshold 15 Volts

**Typical Test Configuration:**



**Ordering Information:**

Part Number	Description
LOOPTEST-KIT	Loop Cable Tester Kit (2 modules complete with carry case)
LOOPTEST-POWER	Loop Cable Tester Power Module
LOOPTEST-LOAD	Loop Cable Tester Load Module
LOOPTEST-CASE	Loop Cable Tester Carry Case

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