

POL-100 Intelligent Loop Test Tool

Data Sheet



Features

- Full analysis and configuration capability without mains power
- Can be used at any point on a loop
- Complete information on the state of devices
- Detailed loop topology information
- Integrated multi-meter functions (including measurements of loop resistance)
- Auto configuration function
- USB port for PC link
- Large capacity internal memory
- Accessory belt available for convenient carrying on site

General

The POL-100 is a loop diagnostic device designed to help technicians save time when working with analogue loops. During commissioning or maintenance, it can be used to test the functionality of individual devices, zones or an entire loop, and provide diagnostic feedback to the technician. The POL-100 is a fully portable device with a large battery capacity meaning no mains power is required and meaning time on site can be scheduled independent of other contractors. The handset can be connected at any point around the loop and a specific loop device or wiring fault, such as incorrectly installed detector bases, can then be quickly located. The POL-100 also has full control of the loop and its elements, including the measurement of resistance to earth and various measures of loop current and voltage. It can also activate any device LED, whether it be a smoke detector, I/O module or AV device.

Furthermore, the POL-100 can control the advanced functionality of devices such as the SMART⁴ tailoring them to meet the requirements of a specific, challenging, environment.

Plug-in terminal blocks at the top of the handset mean it can be quickly and easily connected to an analogue loop or to the base of an individual detector or module.

The POL-100 will analyse loops comprising up to 99 detectors and 99 modules*. It can then display specific information on the type of each device (optical, thermal, I/O module etc.) and give a summary total number of devices classified as each type. The large, 81.4mm x 61mm LCD display allows this information to be viewed easily directly from the handset. However, if further analysis is required, the data stored in the POL-100's internal memory can be transferred via USB to a PC and exported to third party software such as Microsoft Excel.

Data collected by the POL-100 is not only of use in identifying and locating existing problems in the loop, it can also be used for future system maintenance planning. The internal memory is capable of storing up to 200,000 data points at configurable intervals and can be used to store information on contamination levels.**

*The capability to analyse 159 detectors and 159 modules will be added in the future.

**Software to view loop information collected by the POL-100 in an intuitive graphical format is under development and will be available shortly.

Specifications

Dimensions

- 101.6mm(w) x 190.5mm(h) x 32.7(d)

Display

- Blue back-lit display 81.4mm x 61mm
- 19 lines + 4 function keys

Electrical Characteristics

- Internal, long-life batteries, NiMh 1700mA / 8.4V / 14W
- Charger power, 12Vdc/2A

Supported Loop Protocols

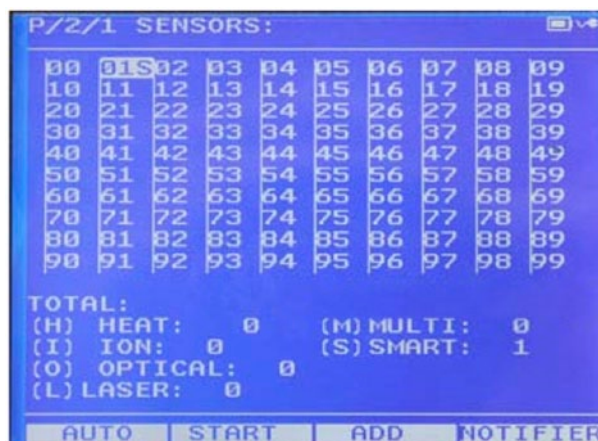
- Notifier
- Morley-IAS
- System Sensor

Connections:

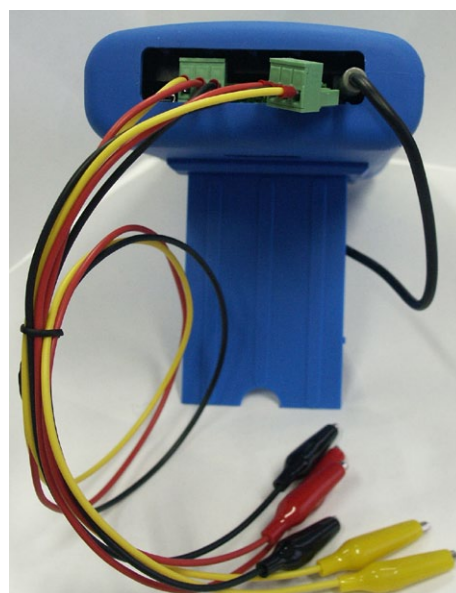
- Loop out + /-
- Loop in + /-
- Loop screen
- Earth
- Synchronization signal for oscilloscope

Ordering Information

| Part Number | Description |
|-------------|----------------------------------|
| POL-100 | Intelligent loop diagnostic tool |
| POL-100-ACC | Accessory belt for POL-100 |



Example of POL-100 display - Location of devices.



Plug-in terminal blocks at the top of the handset for quick and easily connection.



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