

# TE-TLE True Loop Emulator

## Technology Guide

### Introduction

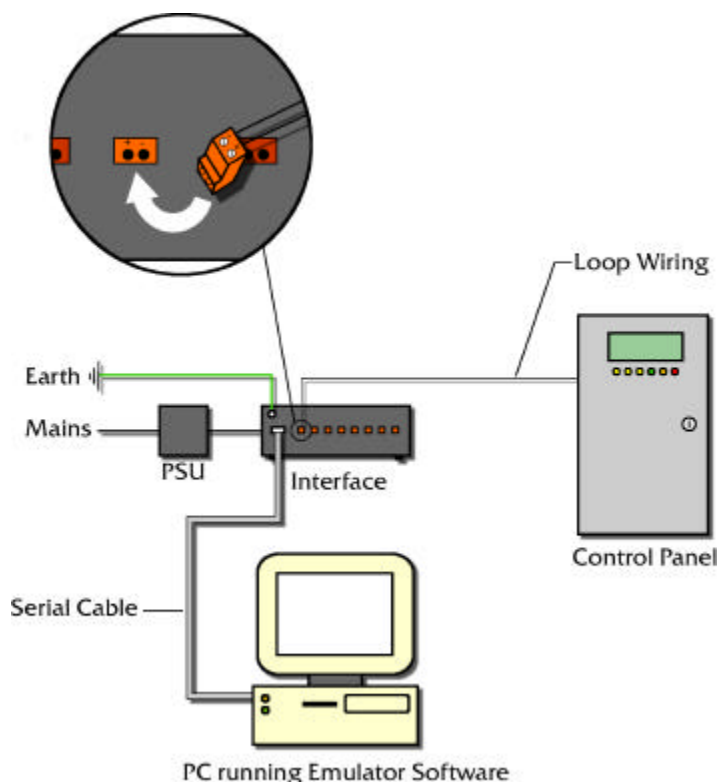
The True Loop Emulator allows simulation of loops and devices before installation, allowing a complete, proposed fire detection system to be thoroughly tested saving time and costs. The system cause and effect can be verified along with double address and short circuit simulation.

The system uses a combination of hardware and software to achieve emulation. A Hardware Interface is connected to a computer running the emulator software and to the fire alarm control panel via the loop wiring connections. This interface can then simulate upto 127 devices on 4 loops. The placing of these devices is achieved 'virtually' using the Emulator Software running on the computer.

The software can handle one or two Interfaces. Thus, up to eight loops of devices can be emulated.

### Hardware

The hardware is the interface between the computer running the True Loop Emulator software and the Control Panel. It contains a microprocessor system that carries out much of the processing of the Emulator and allows almost exact emulation of real devices.



Loop wiring from the panel is connected directly to the TE-TLE and a standard serial cable connects the TE-TLE to the computer.

Once the Control Panel is connected to the computer via the Interface a 'virtual' fire detection system can be created within the True Loop Emulator software.



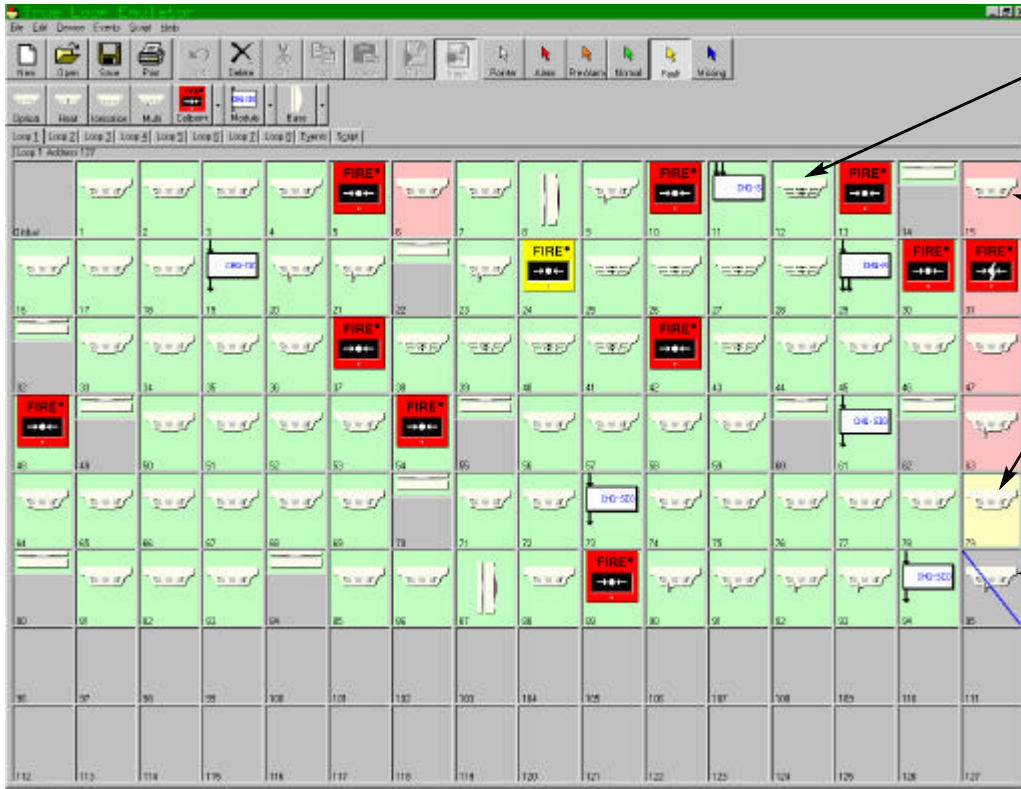
### Features

- Allows simulation of up to 4 loops of Hochiki analogue devices (127 per loop).
- System 'Cause and Effect' can be verified along with double address and short circuit simulation
- Saves time and installation costs as whole system can be tested 'virtually'



## Software

The emulator software runs on the connected computer. Its windows-based display is easy and intuitive to use. Each of the possible eight loops is shown as a separate "page". The loop display on each of these pages consists of 127 address positions, a 'global' position and two status bars above and below the address positions.



Devices can be selected from a device library and 'placed' on addresses on the loop.

These devices can then be activated with fire, fault or short-circuit conditions, to test the panel's reactions and programming.

A device can also be set as "missing" which means it won't respond to commands from the Control Panel. This emulates a 'sensor-removed' condition.

In this way a complete fire detection system can be tested with the installed control panel before any actual hardwiring commences, saving time and resources.

## Specification

|                 |                    |  |
|-----------------|--------------------|--|
| Ordering code   | TE-TLE             |  |
| Dimensions (mm) | L350 x D255 x H100 |  |
| Weight          | 2.41Kg             |  |
| Interface:      | Power supply       | Input voltage range 240Vac<br>Output voltage 12Vdc |
| Software:       | Operating system   | Windows 95, 98 or NT                               |
|                 | Capability         | Supports 8 loops (via 2 interfaces)                |

