

## INTRODUCTION

The Service Logger is a multifunction instrument that can measure and record temperature, dew point and humidity, or temperature and pressure, or dual temperature, or temperature and event. The small size and light weight allow the Service Logger to be used as a portable instrument, or the Service Logger may be permanently mounted using the convenient rear panel keyholes. The Service Logger is an attractive alternative for applications where a paper chart recorder may be too bulky or undesirable for other reasons.

The Service Logger uses plug-in adapters for each function except temperature and humidity, and will automatically recognize the adapter box and select the correct menus and functions for the selected adapter. The Service Logger will indicate any problems or loss of connection with any sensor or adapter.

All sensors and adapters are field interchangeable. No calibration or adjustments are necessary when changing any sensor or adapter.

A backlit alphanumeric display provides visual indication of the instruments operation and settings. All functions are controlled from the front panel membrane keypad.

In addition to serving as a hand held measuring instrument, the Service Logger also has the capability to record and store data. The non-volatile memory will retain recorded information in the total absence of any power and can be read back at any later time.

In the recording mode the user has the option of recording information to the non-volatile memory, printing data as it is collected (Real Time Printing) or to utilize both printing and memory functions simultaneously.

To provide maximum flexibility the Service Logger can display recorded data on the alphanumeric display, print data directly to an attached printer, or transfer the entire data recording to an IBM compatible computer for later analysis or long term storage.

Menu selected filtering of the recorded information allows for the generation of concise reports eliminating unneeded information and wasted time.

An optional portable printer allows data to be printed in the field.

A backup battery will provide up to 24 hours of continuous operation. The supplied external power supply should be used for extended operation. This combination of the backup battery and the external power supply provides continuous operation in the event of primary power loss.

The Service Logger can be configured in five possible combinations or "kits." Each kit is specifically designed to measure a specific combination of elements. This allows the user to customize the Service Logger to any application.

- KTH The Service Logger with a Temperature/Humidity/Dew Point Sensor.
- KTT The Service Logger with a Dual Temperature Adapter and Two Temperature Sensors.
- KTP The Service Logger with a Pressure Temperature Adapter and a Temperature Sensor and Pressure Sensor.
- KTE The Service Logger with a Temperature/Event Adapter and Temperature sensor.
- KPP The Service Logger with a Dual Pressure Adapter and Two Pressure Sensors.

Regardless of the instrument configuration there are some general considerations when setting up the Service Logger.

1. Prior to starting a new recording make sure the previous recording has been printed out or saved to a computer's media. Once a new recording has started the previous data will be lost.
2. Make sure a fresh battery is installed. If the recording requires battery backup and the battery is not fresh, the recording will terminate when the battery is discharged. While information recorded up to that point will not be lost, the recorder will not function once the *Low Battery* is displayed.
3. Plan your recording. Exercise caution when setting up sensors and cables so that equipment doors or other personnel can not trip or catch any part of the test setup.
4. Do not expose the interface boxes to environmental extremes. Carefully read all specifications concerning the acceptable temperature, pressure and voltage ranges of the sensors. Remember that the interface units are not rated for environmental stress.
5. Become familiar with the menus and instructions associated with a particular kit. This will save time and effort when setting up the Service Logger onsite.
6. Select a sampling rate that will best suit the application. Fast sampling rates result in shorter recording times while longer sampling rates permit extended recordings.
7. If you are using Real Time Printing remember that while the Service Logger has a battery backup, most printers do not. If the power fails during a recording and the printer stops working, the Service Logger will indicate a printer problem and stop the recording. Supco's optional portable printer has its own built-in batteries and will not be affected by loss of primary power for short periods.

8. Keep interface and sensor connectors clean. Accumulated dirt can cause poor electrical contact resulting in poor performance.