KEITHLEY

Model 182 Sensitive Digital Voltmeter

Instruction Manual Addendum

INTRODUCTION

This manual addendum is being provided in order to supply you with the latest information in the least possible time. Please incorporate these changes into the manual immediately.

Section 3, page 3-33, paragraph 3.12.4

Replace paragraph 3.12.4 with the following:

3.12.4 Electromagnetic Interference (EMI)

The electromagnetic interference characteristics of the Model 182 Sensitive Digital Voltmeter comply with the electromagnetic compatibility (EMC) requirements of the European Union (EU) directives as denoted by the CE mark. However, it is still possible for sensitive measurements to be affected by external sources. In these instances, special precautions may be required in the test setup.

Sources of EMI include:

- Radio and TV broadcast transmitters.
- Communications transmitters, including cellular phones and handheld radios.
- Devices incorporating microprocessors and high-speed digital circuits.
- Impulse sources as in the case of arcing in high-voltage environments.

The Model 182, voltage source, and signal leads should be kept as far away as possible from any EMI sources. Additional shielding of the test fixture, signal leads, sources, and other measuring instruments will often reduce EMI to an acceptable level. In extreme cases, a specially constructed screen room may be required to sufficiently attenuate the troublesome signal.

The Model 182 digital filter may help to reduce EMI effects in some situations. In other cases, additional external filtering may be required. Keep in mind, however, that filtering may have detrimental effects, such as increased settling time, on the measurement.