

SAFETY WARNINGS

The following precautions should be observed before using Model 486/487. Refer to main manual for detailed safety information and complete operating instructions.

The Model 486/487 is intended for use by qualified personnel who recognize shock hazards and are familiar with the safety precautions required to avoid possible injury. Read over the instruction manual carefully before using the instrument.

Before operating the instrument, make sure the line cord is connected to a properly grounded power receptacle.

Exercise extreme caution when a shock hazard is present. Lethal voltages may be present on the test fixture or the Model 487 output jacks. The American National Standards Institute (ANSI) states that a shock hazard exists when voltage levels greater than 30V RMS or 42.4V peak are present. **A good safety practice is to expect that hazardous voltage is present in any unknown circuit before measuring.**

Inspect the connecting cables, test leads, and jumpers for possible wear, cracks, or breaks before each use.

For maximum safety, do not touch the Model 487 connections, test fixture, test cables or connections to any other instruments while power is applied to the circuit under test. Turn off all power and discharge all capacitors before connecting or disconnecting cables or jumpers. Also, keep the test fixture lid closed while power is applied to the device under test. Safe operation requires the use of the lid interlock.

Do not touch any object which could provide a current path to the common side of the circuit under test or power line (earth) ground.

Do not exceed the maximum signal levels of the instrument, as shown on the rear panel and as defined in the specifications and operation section of the instruction manual.

Connect the chassis of the test fixture to safety earth ground using #18 AWG or larger wire.

Instrumentation and accessories should not be connected to humans.

Maintenance should only be performed by qualified service personnel. Before performing any maintenance, disconnect the line cord and all test cables from the instrument.

ERROR MESSAGES

Table 1. Error Messages

Message	Description
NO DEFLT	Checksum error in default condition during power-up.
UNCAL	Checksum error in calibration during power-up
ROM ERROR	Failed ROM self-test.
RAM ERROR	Failed RAM self-test.
TRG OVERUN	Trigger overrun; instrument triggered while still processing a previous trigger.
CAL VALUE	Calibration value conflicts with the currently selected range.
CAL ERROR	Calibration value not within allowable limits.
CAL LOCK	Sent calibration command with calibration switch (CAL LOCK) disabled.
CAL ZCHK	Cannot calibrate picoammeter with zero check enabled.
INTERLOCK	Tried to put V-Source of Model 487 in operate while an enabled safety interlock switch is open.