

LB5900 Series Security Option Specifications and Instructions

Option MIL & Option SEC

LB5900 Series Power Sensors can store user data such as Measurements, Presets, Simple Offsets, Frequency Dependent Offset Tables, Measurement Rates and Other Data in the sensor. Certain secure user applications require management of this information. The LB5900 security options are designed for Military and Commercial applications requiring data security.

Option MIL prohibits storage of any user information in the sensor. As a result, any time the sensor is powered, the sensor appears as it did when originally shipped from the factory. The option prohibits storage of Measurements, Presets, Simple Offsets, Frequency Dependent Offset Tables, Measurement Rates and any other user data, in non-volatile sensor memory. Options that use internal non-volatile memory may be limited or non-usable. Limited options include UOP and Recorder Out.

Option SEC is designed to allow data sensitive users to take advantage of the sensor features and still maintain security. The option allows the sensor to function normally. When the user wishes to remove the sensor from a secure environment, the secure erase function can be executed. The function securely erases the sensors non-volatile memory. The function can be run multiple times for added security. All user data including external cal lab tables are securely erased. Note that the factory calibration remains in-tact.

The function can be called using the LadyBug Interactive IO program.

SERVice:SECure:ERASe

Note: The erase consists of writing 0xFF to each register, then a random number to each register, then a write of 0xFF to each register.

Or

SERVice:SECure:ERASe FAST

Note: The erase process consists of writing 0xFF to each register

The sensor will be non-responsive for at least 10 seconds while the erase processes are taking place.

Option MIL and Option SEC are mutually exclusive and cannot be ordered together.

For further information, please refer to the sensor datasheet.