LadyBug Technologies, LLC
9290 W. Barnes Dr.
Boise, ID 83709
World Wide: 707-546-1050 USA: 866-789-7111
www.ladybug-tech.com

# Small Form Factor (LBSF) Series Security Option Specifications and Instructions

## *Option MIL & Option SEC*

Small Form Factor Series (LBSF) Power Sensors can store user data such as 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 LBSF security options are designed for Military and Commercial applications requiring data security.

**Option MIL** prevents the storage of any user information in the sensor's non-volatile memory. Each time the sensor is powered on, it operates exactly as it did when originally shipped from the factory. This option blocks saving of all user-specific settings, including Presets, Simple Offsets, Frequency-Dependent Offset Tables, Measurement Rates, and any other user data. Features or options that require internal non-volatile memory may be restricted or unavailable.

**Option SEC** enables data-sensitive users to utilize the sensor's full functionality while maintaining security. The sensor operates normally during use; however, when it needs to be removed from a secure environment, the secure erase function can be executed. This function permanently deletes all user data from the sensor's non-volatile memory, including offsets and non-factory calibration tables, while preserving the original factory calibration. For added assurance, the secure erase process can be run multiple times.
Option MIL and Option SEC are mutually exclusive and cannot be ordered together.

**Option SEC:**
The function can be called using the LadyBug Interactive IO program.

Special Note for sensors with Option LAN. Secure erase does not erase the LAN interface, please use "DIAG:ETH:PT:FACTORYRESET" to erase the LAN/ETH memory.

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.

For further information, please refer to the sensor datasheet.