

PS-Cal v4.x

Parameter Descriptions and Valid Input Values

Parameter Name	Valid Inputs	Units	Explanation
PowerLevel	Decimal	dBm	Test Power level
Scaling	Fixed		Determines whether all cal factors should be adjusted if the user elects to scale 50 MHz to 100%. This parameter is for testing – please leave it set to the default Fixed .
MinTestFrequency	Positive integer	Hz	Limits the minimum test frequency. NOTE: frequencies can be added or deleted from the template for permanent use. For a one-time test (possibly to target a small out of tolerance frequency range) without altering the template frequency table, you can use Min/MaxTestFrequency to temporarily limit the test frequencies.
MaxTestFrequency	Positive integer	Hz	Limits the maximum test frequency. See NOTE under MinTestFrequency .
AdapterRequired	Yes, No		If an adapter is required between the RF standard and the DUT, enter Yes . User will be prompted to load the adapter cal data during the test.
AdapterName	String		Informational only. PS-Cal will use this information in user prompts.
DualStandards	Yes, No		In cases where a sensor requires the use of two standards, enter Yes .
SplitFrequency	Positive Integer	Hz	If DualStandards is set to Yes , enter the frequency at which PS-Cal should start using calibration data for the second standard and prompt the user to move the DUT to the second standard.
MinReadings	Integer <= 9		Minimum number of test runs.

Parameter Name	Valid Inputs	Units	Explanation
MaxReadings	Integer <= 9		Maximum number of test runs.
DeviationError	Decimal	dB	Target deviation of test runs, if MaxReadings is > 1. If both DeviationError and MinReadings requirements are met, test will conclude.
ZeroBridgeInterval	Integer "Min"	Minutes	If set to 0 Min , PS-Cal will monitor the TEGAM 1830A and perform a zero whenever necessary. If set to x Min where $x > 0$, PS-Cal will perform a zero at the specified interval.
RotateMessage	Yes, No		If set to Yes and MinReadings is set to > 1, user will be prompted to rotate the DUT 120° between each run.
NumSamples	Integer		Number of measurement samples for each RF power measurement. For instance, if set to 5, at each frequency PS-Cal will sample both the standard and DUT power meters 5 times and average those samples for each reading.
LevelError	Decimal "dB"	dB	Maximum error from the specified PowerLevel when leveling the signal source.
DelayTime	Integer "s"	Seconds	Amount of settling time before a measurement is taken after changing the signal source RF power output. For the TEGAM 25xxA RF standards, 8 – 13 seconds is recommended.
AmpRequired	Yes, No		Set to Yes if an amplifier is required between the signal source and RF standard to reach the specified PowerLevel .
AmpGain	Integer "dB"	dB	Nominal gain of amplifier
AmpStartFreq	Integer	Hz	Frequency at which PS-Cal will prompt the user to add the amplifier to the test setup. PS-Cal will use the specified AmpGain when determining starting power levels for all remaining frequency test points.

Parameter Name	Valid Inputs	Units	Explanation
Display Units	mW		Units to be displayed when PS-Cal generates its report.
IsAbsolute	Yes, No		Toggles whether values will be absolute or relative.
Has30dBPad	Yes, No		Allows PS-Cal to know an attenuator is in use.
AttenuatorOffset	0dB	dB	For use with Direct-Comparison method.
Path	Integer		Some sensors have multiple paths for different power levels. This addresses which path a particular test will take.
RhoTableName	String		The name of your Rho data table.
CFTTableName	String		The name of your Cal-Factor data table.