# Information Only Service Note

Supersedes: NONE

# E8486A Waveguide Power Sensor

Serial Numbers: ALL

Enhanced test method requiring specifications change for option 200

Parts Required:

P/N Description Qty.

NONE

#### ADMINISTRATIVE INFORMATION

[X] Calibration Required PRODUCT LINE: WN
[[]] Calibration NOT Required AUTHOR: LSL

ADDITIONAL INFORMATION:



## Situation:

Factory enhanced test method requiring specifications change for option 200 New units shipped from 1<sup>st</sup> July 2025 onwards (with MY65070004 above), or units calibrated from 1<sup>st</sup> July 2025 onwards will be using the new power linearity specifications below.

o ≤ 10dBm: **±5.1%** 

o 10dBm to ≤ +15dBm: **±6.3%** 

o 15dBm to ≤ +20dBm: **±6.6%** 

## Solution/Action:

For E8486A power sensors with option 200 that are sent to Keysight service centers for calibration and/or repair, Keysight customer Sales / Service Representative will notify the customer of the change in specifications.

Customers are also advised to update the power meter firmware to the following revision (or higher). The firmware can be downloaded from keysight.com.

Power meter firmware revision required: N1913A/14A - A.01.22 and above N1913B/14B- A.02.21 and above

If the power meter firmware is not upgraded to the latest version the error messages below will be displayed if the power meter is connected to the E8486A-200 with the latest calibration.

Model	Remarks			
E4418B E4419B	<ol> <li>Not compatible</li> <li>Error list shows "-310: System error; Sensor EEPROM Cal Factor Data not found or unreadable"</li> <li>Power reference unable to get 0dBm</li> </ol>			
N1913A N1914A	Abnormal power reading     CF at 50MHz show 0%			
N1913B N1914B	<ul><li>3. Power reference unable to get 0dBm</li><li>4. Error list shows no error</li></ul>			
E4416A E4417A	<ol> <li>Overload</li> <li>Error list shows "-310: System error; Sensor EEPROM Cal Factor Data not found or unreadable"</li> <li>Power reference unable to get 0dBm</li> </ol>			
N1911A N1912A	<ol> <li>Abnormal power reading</li> <li>Power reference unable to get 0dBm</li> <li>Error list shows no error</li> </ol>			

Note that the obsolete Power Meter E4418B/19B will not be compatible with the newly calibrated E8486A-200. The recommended replacement for E4418B/19B is N1913B/14B.

Revision History:

Date	Service Note Revision	Author	Reason for Change	
27 Jun 2025	01	LSL	As Published	