

INFORMATION ONLY – DOES NOT COMMUNICATE  
A MODIFICATION OR SAFETY CONDITION

**E4418A-08**

**S E R V I C E N O T E**

Supersedes:  
NONE

**Agilent E4418A EPM Average Power Meter**

**Serial Numbers:** GB00000000/GB99999999  
US00000000/US99999999

**Latent Measurement Assembly Defect Creating An Input Overload Error**

**Parts Required:**

<b>P/N</b>	<b>Description</b>	<b>Qty.</b>
E4418-60003	Measurement Assy	1

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:

**INFORMATION ONLY**

AUTHOR: FC PRODUCT LINE: PN

ADDITIONAL INFORMATION:

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**Situation:**

A vendor specific issue with device U25 on the measurement assembly has been identified. This device is a voltage comparator, and it is part of a circuit that interfaces the measurement assembly to the sensor.

The failure mode of this device is only encountered when sensor cables longer than 6.1m (20ft) are used. When this happens, the power meter does not correctly identify the sensor, and error 231 (INPUT OVERLOAD) occurs. The display also shows the value '999.99'.

**Solution/Action:**

If any of the units listed above are received at the service center and are exhibiting this fault, then the details printed on device U25 must be checked before taking any further action - the silkscreen markings on the board make this device easy to locate.

Markings printed on the device identify it using both a manufacturer and a part number. The part number for this device will be a variant of the LM311 device, but the only variant that is known to work has the part number LM311D. The measurement assembly must be replaced if the part number marked on the device is not specifically LM311D.