

INFORMATION ONLY – DOES NOT COMMUNICATE
A MODIFICATION OR SAFETY CONDITION

E4419B-11

S E R V I C E N O T E

Supersedes:
NONE

Agilent E4419B EPM Average Power Meter

Serial Numbers: GB00000000/GB41298503
MY00000000/MY41291383
US00000000/US99999999

Latent Measurement Assembly Defect Creating An Input Overload Error

Parts Required:

P/N	Description	Qty.
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.