Two choices depending on the required current level

The CX3300A device current analyzer is used to capture a minute standby current or current fluctuations of the device on the ECU board. The lower-priced DC power supply/analyzer is used to observe the current consumption of a device with a relatively larger standby current or the entire ECU board (module).

Either one can be selected according to the DUT and required range and accuracy of measurement.

Want to check the standby current of μA order with high accuracy?
Want to accurately learn the profile of steep current change from μA in standby mode to several hundreds of mA in operation mode?
Want to also verify the power consumption of the entire board?
Yes, we can support you!

Accurate capture of a μA standby current

The number of ECUs installed in automobiles continues to increase, and the battery power consumption during standby is no longer negligible.

CX3300A enables measurement of current waveforms even at the level of hundreds of pA with Keysight’s unique, low-noise current sensor technology. A minute standby current that was not visible with conventional measuring instruments can now be measured with high accuracy, enabling the analysis of power consumption during standby mode.

Capture the current change profile from standby to operation mode

Understanding and improving the current consumption profile when the device starts operation is also important in controlling battery consumption.

The CX3300A’s dedicated current sensors enable up to 5-digit dynamic range measurements simultaneously. This makes it possible to observe the current transition from the μA level during sleep to several hundred mA when in operation mode with extremely low noise.

Two choices depending on the required current level

The CX3300A device current analyzer is used to capture a minute standby current or current fluctuations of the device on the ECU board. The lower-priced DC power supply/analyzer is used to observe the current consumption of a device with a relatively larger standby current or the entire ECU board (module).

Either one can be selected according to the DUT and required range and accuracy of measurement.
High-speed sampling up to 1 GSa/s
Even extremely large and steep current spikes can be covered in one range from μA to A and captured up to 1 GSa/s sampling using the CX3300A.

Long memory of 256 Mpts/ch
With CX3300A, a signal sampled at 10 MSa/s can capture 25.6 seconds for subsequent analysis. The high-speed sampling allows faithful reproduction of waveforms even if zoomed in.

Profile analysis
The profile of how a minute current in transition changes is converted into numerical values and displayed. The CX3300A enables more detailed analysis.

Sensors for various applications
We offer sensors for a wide dynamic range, broadband & low noise, and adapters for various connections such as coaxial, twisted pair cables and banana plugs.

A power supply that also provides oscilloscope view
Displays output signals on the monitor with high accuracy. Power consumption analysis of ECU board is realized by one N6705B box.

Seamless range
The N6705B switches between three measurement ranges without affecting the measurement and provides continuous measurement from a minute current to peak current.

Typical Configuration

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>CX3324A</td>
<td>Device current waveform analyzer, 4 ch.</td>
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<tr>
<td>CX3322A</td>
<td>Device current waveform analyzer, 2 ch.</td>
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<tr>
<td>N6705B</td>
<td>DC power supply/analyzer</td>
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Related Document

<table>
<thead>
<tr>
<th>Publication Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5992-1430EN</td>
<td>Device Current Waveform Analyzer, Brochure/datasheet</td>
</tr>
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</table>

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Published in Japan, January 13, 2017
5992-2097ENN
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