Sensor Test Solution

**EVA100 Measurement System**

- Physical Stimulus Unit
- GPIB PLC Control
- FA Server
- Pulse Pattern Generator
- Digitizer/Oscilloscope
- Digital Multi Meter
- DC V/I Source
- Extend Capability SENT, PSI5, CAN/LIN, etc.

**Digital Sensor Test Solution**

- Easy Set-Up and Control Software
- All Functions in One Small Box
- Covers a Wide Range of Digital Protocols: SPI, SENT, PSI5, I2C, CAN, LIN and JTAG
Digital Sensor Test Solution

The EVA100 combines a high-precision, high-speed analog test capability for sensor elements with digital test capabilities for signal receiving and sending.

Target test items

Analog: Power, Analog I/O, etc.
Digital: SCAN, Frequency, Logic, etc.

The system also supports communication capabilities with automotive sensor protocols such as SENT/PSI5 and has a GPIB controller for the stimulus unit, giving the EVA100 all of the functions needed for sensor testing.

Easy Set-Up Sensor Test with SENT/PSI5

By using SB&C for receiving SENT/PSI5 data, it is easy to collect and change the digital data to physical measurements such as angle/pressure data. The sequence editor makes it possible to communicate with SENT/PSI5, calculate sensor data, and control analog and digital modules all at once.

SENT SB&C Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Number of Channels</td>
<td>4</td>
</tr>
<tr>
<td>Input Voltage Range</td>
<td>0 V to 5 V</td>
</tr>
<tr>
<td>Input Hysteresis</td>
<td>0.5 V (Typ.)</td>
</tr>
<tr>
<td>External Threshold</td>
<td>0.5 V to 4.5 V</td>
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<tr>
<td>Internal Threshold</td>
<td>2.0 V (Typ.)</td>
</tr>
<tr>
<td>Clock Tick Range</td>
<td>2.4 us to 108 us</td>
</tr>
<tr>
<td>DC Parametric Test</td>
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PSI5 SB&C Specifications

<table>
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<tr>
<th>Item</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Number of Channels</td>
<td>4</td>
</tr>
<tr>
<td>Supply Voltage Range</td>
<td>4 V to 11 V</td>
</tr>
<tr>
<td>Sync Signal Sustain Voltage Range</td>
<td>2.5 V to 4.5 V</td>
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<tr>
<td>Interface Quiescent Current Range</td>
<td>4 mA to 35 mA</td>
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<tr>
<td>Output Current Limit</td>
<td>100 mA (min.)</td>
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<tr>
<td>Bit Time Mode</td>
<td>125 kbps / 189 kbps</td>
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<tr>
<td>DC Parametric Test</td>
<td>Yes</td>
</tr>
</tbody>
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