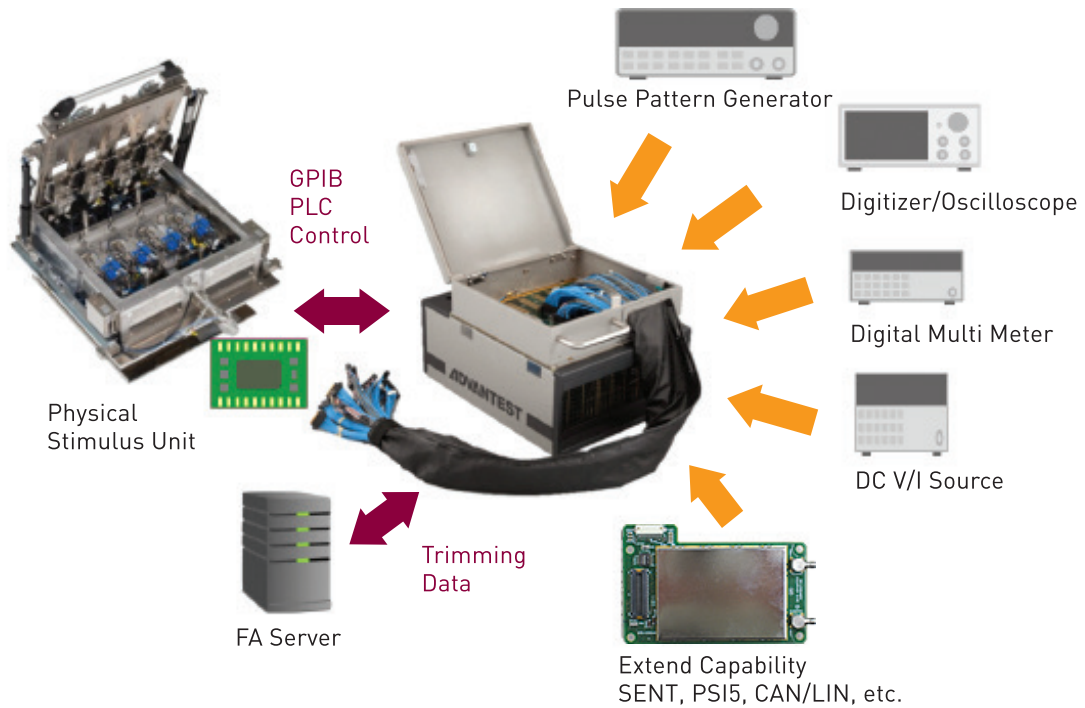


Sensor Test Solution

EVA100 MEASUREMENT SYSTEM



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

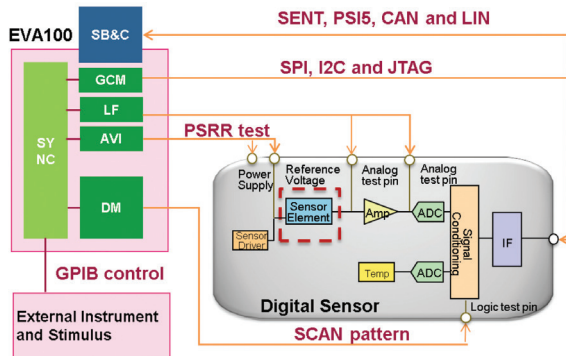
■ Digital Sensor Test Solution

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.



SB&C : Standard board & circuit
GCM : General control module
DM : Digital module, digital code capture
AVI : Voltage current monitor/source module
LF: Low-frequency AWG/DGT

■ 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.

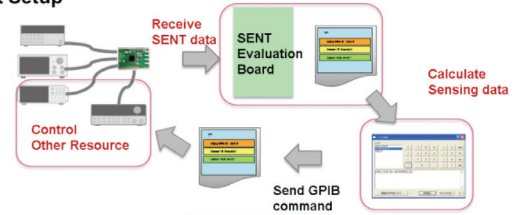
■ SENT SB&C Specifications

Item	Specification
Number of Channels	4
Input Voltage Range	0 V to 5 V
Input Hysteresis	0.5 V (Typ.)
External Threshold	0.5 V to 4.5 V
Internal Threshold	2.0 V (Typ.)
Clock Tick Range	2.4 us to 108 us
DC Parametric Test	Yes

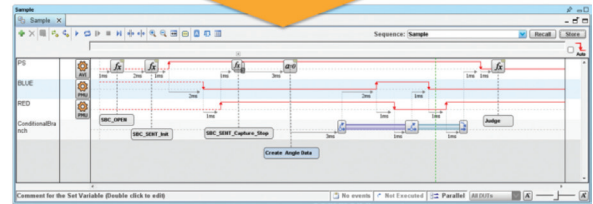
■ Measurement Sequence Example

Here is an example of the measurement sequence that results when using the EVA100 to replace multiple instruments.

Current Setup



EVA100



■ Example of SENT Data/Angle Data Results (4 Site Measurements)



■ PSI5 SB&C Specifications

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

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www.advantest.com

EVA Project E-mail: info_eva@advantest.com