

Turn automotive bus data into a measurable signal

Sneek, The Netherlands, September, 2026

TiePie engineering are pleased to announce a powerful new addition to the **TiePie Multi Channel oscilloscope software**: the **Value Extractor I/O**, introduced in software version 1.49.

Modern vehicles generate enormous amounts of data. When analysing CAN, LIN, SENT, FlexRay or other communication buses, finding one specific sensor value in a stream of hundreds or thousands of messages can be time-consuming.

The new Value Extractor makes this much easier.

Instead of searching through large tables of decoded messages, you can select the specific value you are interested in and extract it directly from the communication data. The extracted value can then be displayed as a **waveform**, **meter** or **table**, just like a conventional measurement.

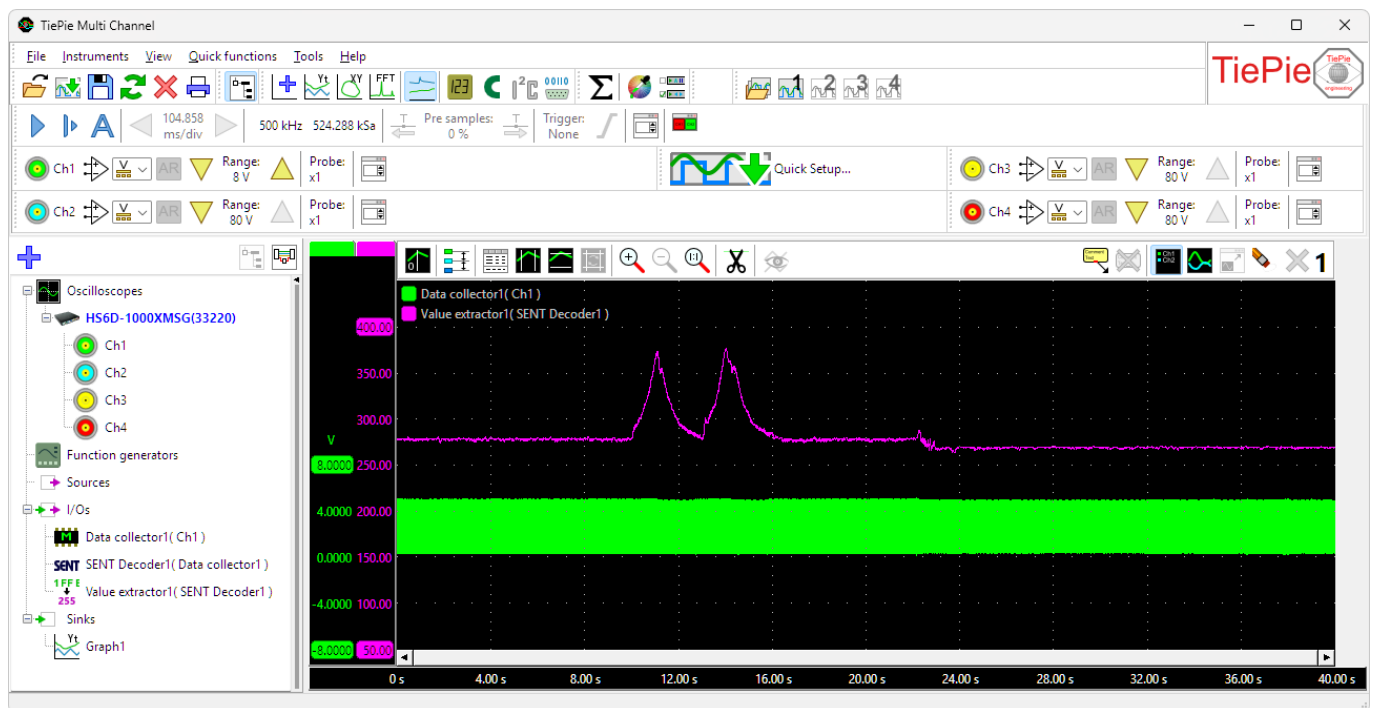
From communication data to a measurement

Imagine a pressure sensor communicating over a **SENT** interface.

With Multi Channel, you can:

Capture → Decode → Extract → Measure

The oscilloscope captures the SENT signal and decodes the communication. The Value Extractor then isolates the actual sensor value from the data stream. You can now plot that value against time and immediately see how the sensor responds when, for example, the accelerator is operated or the engine load changes. What was previously buried in a complex stream of digital messages becomes a **clear, measurable signal**.



Practical example: SENT sensor data immediately visible

The new Value Extractor I/O makes complex decoded sensor data immediately visible. In this example, a specific value is selected from the SENT data stream of an automotive pressure sensor and graphically displayed in real time. As a result, pressure changes when pressing the accelerator pedal are immediately visible, without having to analyze long tables of measured values.

Designed for automotive diagnostics and testing

The Value Extractor works with the protocol decoders available in Multi Channel, including:



CAN

CANopen



J1939

LIN



SENT

FlexRay



I2C

UART



SPI

DMX512

Specific messages can be selected using parameters such as ID, address and read/write information. Values can also be converted to the desired unit.

This creates a powerful workflow:

Electrical signal → Protocol → Message → Parameter → Measurement

All within the same measurement environment.

What else is new in version 1.49?

The Value Extractor is the main new feature, but version 1.49 also adds:

- New protocol decoders for **LIN**, **SENT**, **FlexRay** and **DMX512**
- Enhanced filtering of decoded data tables
- Improved data recording and file management
- High-DPI display support
- Various usability and performance improvements

Already using TiePie Multi Channel software?

Then the Value Extractor is available as part of the latest software update.

We encourage you to download the latest version and try it with your existing TiePie oscilloscope.

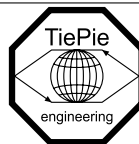
Less time searching through data. More time understanding what the vehicle is doing.

[Download the latest Multi Channel software ...](#)

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