

- Hardware:** Simulation of up to four **SENT sensors** *)
Transmission rate from **24,7 kBit/s** up to **64,9 kBit/s** (**SENT specific**)
System integration via **CAN-Bus** (up to 1 Mbit/s)
- Software:** Configuration of sensor specifications via CAN interface
Optional support for **Enhanced Serial Message** format or **Short Serial Message** format
Length manipulation of the **Pause Pulse**
Up to four **Analog** to **SENT Signal** converters. (OPTIONAL)
Using of standardized **CRC checksum** in the SENT protocol
Feedback about **errors** from the iSENTsim box
Data transmission can be handled from one-to-one implementation (e.g. simulation of hall sensors) upto customer's specific requirement. All options are feasible with necessary software modifications.



Possible error injections:

Manipulation (also automatically)

- **Protocol-Layer:**
 - Manipulation of the **checksumm**
 - **Length manipulation** of Sync-, High- or Low-Pulse
 - **Changing** the Tick-Time
 - **Stopping the Rolling counter** (if it's implemented)
 - loss of one **data frame**
 - Varying the **count of data-nibbles**
- **Hardware-Layer:**
 - Simulation of **electrical shortcuts** (KL31, KL30, GND, etc.)
 - **Disconnection** of the signal wire

*) SAE J2716-Standard