

One Click: Flow to CAN - innovative solution for mobile test environment

Faster installation, clear identification, secure data transfer - these are the demands on automotive engineers when equipping the test vehicles in the automotive development. Many different sensors must be installed and connected in the test vehicles before road tests begin. And everything has to be prepared carefully. When the tests start, the measuring equipment must be identified correctly and the signal transmission must work properly. Otherwise, the expensive road test may be worthless.

The engineers have to deal with different sensors of different producers, different connections and different signal outputs.

"Why does not someone finally launch a product that - when connected - shows to the technician on his laptop the function of the signal transmission and makes it possible to check at a glance whether the measuring device is correctly named and the set configuration data is entered correctly? For us the best solution would be by CAN-Bus, which is already in widely accepted in the automotive industry ... "- goes the dear wish of the chief developer of a large German automotive group.

TrigasDM and CSM Computer Systeme Messtechnik GmbH have dedicated themselves to this wish and are now presenting a commonly developed solution at the Sensor + Test exhibition in Nuremberg from 26.-28.06.2018.

One Click: Flow to CAN consists of a **flow measuring turbine from TrigasDM with the high-precision Lysis linearization electronics**, which can compensate for viscosities variations using UVC principles and thus ensures highly accurate measurement results even under changing temperatures. Lysis also allows different media to be measured with the same turbine without loss of accuracy.



In addition to the linearized flow output signal, transmitted is also the Transducer Electronic Data Sheet (TEDS) of the sensor. The measuring point name, calibration data and flow measuring ranges are included. When the sensor is connected to CSM's new AD-Scan MiniModule (ADMM 4 CXS), all information is converted to a CAN bus signal.

The **AD-Scan MiniModul** is the new edition of the CSM classic ADMM 4. While retaining the extremely compact size, the technical features have been further improved and optimized. The ADMM 4 CXS is the smallest member of the CSM measurement module family. It has been consistently developed for use in the engine compartment and is often used at setups with very limited space. The four bipolar voltage inputs with unipolar sensor supply provide very good measuring accuracy.



But the highlight is the **integrated TEDS functionality**, which enables simple configuration and identification of the sensors in just a few seconds.

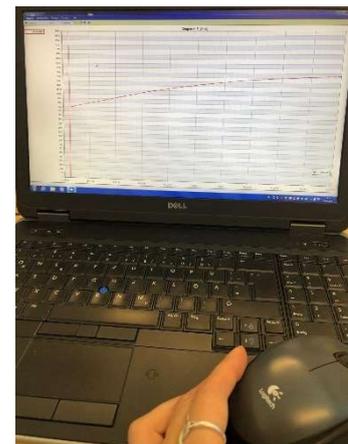
Once the technicians have installed the turbine flowmeter and other sensors and plugged them into the AD-Scan MiniModule, they can easily connect the output signal to their laptop with a CAN converter and start the **CSMconfig software**.

With just a few clicks, TEDS shows the configuration pre-programmed in the module as well as the scaling configuration of the output channels. Each measuring point has a corresponding name.

No problem if a wrong channel has been chosen - if you do not want to switch connectors, the correct configuration can be easily transferred to the new channel with the click of a mouse.

The name of the measuring device can still be adjusted as well in the sensor menu, while the programming of the meter is protected by this software. For data safety reasons, this can only be accessed with a separate program and access module.

The physical function of the measuring device can be checked with the **free program block "CSMview"**.



This innovative solution ensures that Road Test data are properly recorded, identified and classified with maximum ease and minimal possibility for error.

CSM and Trigas are pleased to present the implementation of the sought-after solution to the above mentioned chief developer and all colleagues and partners from the automotive mobile measurement world.

Visit us from 26.-28.06.2018 at the Sensor + Test, Hall 1 Booth 657 and Booth 300 and ask for **One Click: Flow to CAN**.