

General technical data: imc Sensors

Sensor database implementing imc Plug & Measure technology Supports Smart Sensors with TEDS per IEEE P 1451.4

imc Sensors is a ready-to-go, universal database application for administering and editing sensor information. The entries in the sensor's technical spec sheet as well as its calibration values receive special treatment. Along with these values for smart sensors (TEDS) defined in IEEE P 1451.4, selections of additional sensor properties can be entered.

These can be set, edited and viewed in freely configurable tabular views.

When the sensor database is used with the Plug & Measure-capable imc measurement systems (CANSAS or CRONOS-PL/-SL/compact/flex), it is also possible to store a measurement amplifier channel's complete parameter data, plus the entire device parameters, along with the sensor data. For instance, if all-purpose measurement amplifiers of the type UNI8 are used, any sensor can be connected at each measurement channel, and the complete parameterization happens automatically. This significantly shortens the tooling time and ensures reproducible and defined sensor connections.

The purpose of imc Sensors is to make sensor information quickly and comprehensively accessible and:

- to administer sensors in a central database,
- to parameterize measurement channels (e.g. in CANSAS or CRONOS-PL/-SL/compact/flex),
- to access the calibration history, and
- to inspect the spec sheet.

Order code: SENS-DB

Special advantages and applications

- Quick and error-free setting of measurement channels
- Reduction of routine tasks
- Records of suggested measurement channel parameter settings (sampling rate, filter settings etc.)
- Standardization of channel nomenclature of certain sensors used
- Verification of the calibration data and their validity
- Quick and reliable traceability of the calibration data per ISO9000
- Monitoring of calibration intervals
- Device-independent sensor administration

Basic functions

- Recording of a sensor's spec sheet
- Editing of a sensor's spec sheet
- Filter for sensors and tabular view freely configurable
- Search functions
- Administration of sensors, actors and related devices
- Over 200 standard properties

Extra functions

- History of a sensor
- Trash bin (deleted sensors)
- User-specific properties
- Observance of IEEE P 1451.4
- Editing of non-linear characteristic curves
- Treatment of special sensors with multiple outputs, e.g. triaxial accelerometers, strain gauge rosettes and more
- Recognition of sensors by barcode
- Report generation using MS Excel
- Integrated on-line help

Interfaces

Data storage

- Xml-based history database
- Local working with MS Access file
- Connectable in the network to various database servers (e.g. Oracle, MS SQL Server or DB2) via ADO-drivers
- Enables work in the network with database servers and uncoupling for a Notebook, for instance, in order to use on-board vehicles.

Data exchange

- XML: file, storage
- Import of virtual TEDS
- Drag & Drop to CANSAS and imc Devices for measurement channel configuration
- Sensor data sheet packable for storage in an Eprom (TEDS).
- imc Plug & Measure technology

Developers

- Sensor selection via ActiveX
- COM library
- Documented and open formats for xml-exchange and database

Compatibility

- imcDevices V 2.5
- CANSAS V 1.3Rev 28
- imc Studio V 3.04

System prerequisites

- Min. 256 MByte free memory on hard drive
- Min. 256MByte RAM
- CD-ROM drive (for the installation)

Supported operating systems

- Windows XP
- Vista 32 Bit
- Windows 7 32 Bit
- Windows 7 64 Bit

Options and enhancements

none

Included in delivery

CD with software in German and English, including extensive documentation in PDF format.