

# imc CANSAS

## Software for the configuration of imc CANSAS modules including COM libraries and LabVIEW VI

imc CANSAS allows configuration of the imc CANSAS series of modules. Modules then automatically perform the specified tasks upon application of a power supply, e.g. acquire analog data or output digital and analog variables. The entire functionality of the imc CANSAS modules is accessible from a single unified user interface.

### Characteristics

- **Configuration** of measurement and output channels
- **CAN-Bus** configuration (Baud rate, identifiers)
- **Administration:** Support of all CANSAS modules and the administration of their settings in one database
- **Sensor database** (imc SENSORS): automatic parameterization by drag&drop
- **imc Plug & Measure:** measurement channels will be automatically parameterized if sensors with TEDS (electronic data sheet) are connected
- **Online data processing** of input and output channels (e.g. real time computation of filter, smoothing and decision functions) depending on module type
- **Display** of the current measurement values as simple table, for verification purposes
- **imc STUDIO** interface:
  - integration of the configuration assistant into imc STUDIO
  - use of a imc CRONOS device as CAN interface
  - import of imc CANSAS configuration files (\*.dbc)
- **synchronized data acquisition** across multiple modules: typically 10  $\mu$ s, max 100  $\mu$ s (depending on module type)
- **read back** of module configuration from a connected module
- **"Heartbeat"** message:
  - Can be sent by the module at a specified time interval, containing status and configuration information for control and test rig applications.
- **"Guarding"**: Output modules can be configured to enter a predefined state Whenever a regular guarding message fails to arrive (fail safe protection in test rig applications).
- **"Find me"** Command:
  - Identification of a specific module on the bus. Selected modules can be identified by blinking of the LED.
- **Display of bus load:** expected bus load of each connected module (in % of nominal capacity depending on Baud rate)
- **Scaling** by means of two-point scaling
- Comprehensive **report** of all module settings
- **Reset-mode:** By simply applying the Reset-plug, even modules set to an unknown Baud rate can be accessed and configured.
- **Operation in a imc CANSAS rack:** recognition and indication of current slot
- **CANopen® compatible:** activation of the modules for an alternative mode with CANopen (depending on module type)
- **Language selection** using imc Language-Selector; supported: German, English, French, Japanese, Chinese, Taiwanese.
- **imc ARGUS:** Automatic interface setting to be applied when operating imc CANSAS*fit* modules from imc ARGUS

## Interfaces

### Configuration data exchange:

- XML-file, storage
- Export as CAN-database (\*.dbc)
- Export for import into imc STUDIO software (\*.cba, CAN-bus Assistant)
- File Description Blob (\*.fdb)
- Drag&drop to imc SENSORS

### Application development:

- COM library including documentation and extensive templates and examples.
- LabVIEW™ VI

## System requirements

Supported operating systems	Minimum requirements for the PC
Windows 10*/11*	1 GB RAM
Windows 8.1	100 MB free hard disk drive (NTFS format)

\*released in conformance with the version of Windows 10/11 applicable at build date of imc software

## Compatibility

- Operable as a stand-alone application
- imc SENSORS 1.3 R14 and higher
- imc STUDIO 5.0 R12 and higher

### Supported interfaces between PC and CAN-Bus

Manufacturer				
KVASER	CAN/USB Adapter			
	Interface boards and modules - please consult vendor's documentation:			
	<table border="1"> <tr> <td>PCMCIA</td> <td>LAPcan</td> </tr> <tr> <td>USB</td> <td>USBcan II, BlackBird, Leaf Pro HS V2, U100</td> </tr> </table>	PCMCIA	LAPcan	USB
PCMCIA	LAPcan			
USB	USBcan II, BlackBird, Leaf Pro HS V2, U100			
Vector Informatik GmbH	Interface boards and modules:			
	PCMCIA	CANcardX, CANcardXL		
	USB	CANcaseXL, VN7600, VN7640		
	PCI	CANboardXL		
	Parallelport	CANpari		
	PXI	CANboardXL		
DSPACE	Interface boards and modules - please consult vendor's documentation			
HORIBA	Interface boards and modules - please consult vendor's documentation			
IXXAT Automation GmbH	Interface boards and modules:			
	ISA-Interface	iPC-I320,		
	PCI-Interface	iPC-I320, iPCI165, iPCI320		
	Parallelport	CANDY		
	PCMCIA	tinCAN		
	USB	USB-to-CAN, USB-to-CAN II, USB-to-CAN compact, USB-to-CAN V2, USB-to-CAN FD compact		

### Options and enhancements

- CANSAS configuration package (order code: CAN/USB-P; article number: 1050020):
  - KVASER CAN/USB adapter (supported by all 32 bit OS),
  - CANSAS-RESET plug,
  - power supply for a imc CANSAS module,
  - terminated CAN-Bus cable 2 m,
  - configuration software including COM libraries and LabVIEW™ VI for imc CANSAS
  - Getting started with imc CANSAS



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## Contact imc

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Internet: <https://www.imc-tm.com/service-training/>

### imc ACADEMY - Training center

The safe handling of measurement devices requires a good knowledge of the system. At our training center, experienced specialists are here to share their knowledge.

E-Mail: [schulung@imc-tm.de](mailto:schulung@imc-tm.de)

Internet: <https://www.imc-tm.com/service-training/imc-academy>

### International partners

You will find the contact person responsible for you in our overview list of imc partners:

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