

INCOSOL ADS [Beckhoff TwinCAT®]

OPC SERVER AND I/O DRIVER FOR TWINCAT® 2 & 3

The combined application as an I/O communication driver and OPC server and also the average data transfer rate and updating time in the range of milliseconds, even with large datasets (> 100 KB), make the INCOSOL ADS stand out.

In addition, there is also an abundance of interesting and high performing features, which not only provide a quicker and more convenient application on a daily basis, but also keep the costs to a minimum: iFIX licensing costs, for example.

This makes the ADS from the INCOSOL product portfolio one of the highest performing communication drivers for the Beckhoff TwinCAT® PLC system.

The high performance communication solution with special features for the Beckhoff TwinCAT® PLC systems.



You have questions?

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INCOSOL

industrial communication solutions

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INCOSOL ADS:

At a glance

- Supports the Beckhoff TwinCAT® PLC systems 2.0 and 3.1
- Can be used as an I/O driver and OPC server at the same time
- Block oriented communication structure: Complex structures, for example, entire GVL root variables can be read in one block which enables an extremely high data throughput
- Online upload of the symbol list from the SPS runtime system or reading/scanning directly from the TwinCAT® SYM or TPY file
- The automatic reading and refreshing of the symbol list enables the ADS database to be updated. There is no need to re-initialize the ADS clients (iFIX or OPC)
- Symbol browser featuring a tree structure, enabling a quick selection of symbols
- Quick and convenient capture of I/O addresses and OPC item IDs by copy-paste
- Indexed addressing of array variables via iFIX register blocks

INCOSOL ADS:

Licensing and support

- One time licensing via USB Dongle or license file
- Unlimited right of use
- Maintenance agreement including complimentary updates
- Ongoing development and long-term support
- Personal communication with the developer

INCOSOL ADS:

Usage on a daily basis with

- Bosch
- flglass GmbH
- Greenerity
- Advance Pharma
- Sol Voltaics

As well as numerous other companies throughout the world!

The high performance communication solution with special features for the Beckhoff TwinCAT® PLC systems.



INCOSOL ADS: Technische Features

Supported software

- Runs with Windows 7, 8, 10 (also IoT), Server 2016 and Server 2019
- OPC DA clients in accordance with OPC DA specification 2.05 ¹⁾
- FIX32/iFIX, all versions ²⁾
- All HMI/SCADA systems that support OPC DA, like WinnCC, InTouch HMI or ControlMaestro

Required Hardware

- The INCOSOL ADS driver merely needs an Ethernet network interface on the respective PC

Supported PLC Systems

- Embedded PCs from the BXxxxx and CXxxxx series
- Panel PCs from the Cxxxx and CPxxxx series
- Control cabinet IPCs from the Cxxxx series
- Fieldbus Boxes from the IL23xx series
- Other PC systems with TwinCAT® PLC runtime system 2.0 or 3.1

1) OPC UA starting the 4th quarter of 2021.

2) For implementation under GE's Proficy iFIX, the INCOSOL ADS also has direct, high performing interfaces available. These internal interfaces provide substantial performance benefits in comparison to an OPC server-client connections, especially, when it comes to large applications with tens of thousands of data points.

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