

# FEATURES

The OAS-SBS-IOM series consists of compact fieldbus modules with inputs and outputs for mounting on DIN rails, on the mounting plate in the control cabinet or electrical distributor or in the 19" rack, for mounting on the door.

## General Information

- Binary, digital and analogue signals are recorded, output and processed in the automation stations (Niagara platforms) at various points in the building and the building services systems via the SBS-IOM devices.
- The connection with the automation station takes place via a commercial RS 485 communication bus / MOD bus RTU

## Local Override (LO)

- The OAS-SBS-IOM series meets the requirements of the local override operation (LO) according to DIN EN ISO 16484 and VDI 3814.
- The manual and emergency operation for overriding the outputs of the automation station is carried out via switches and potentiometers as operating elements, which complies with DIN EN ISO 16484 and VDI 3814 for LO
- Status messages of the inputs and outputs are transmitted by LEDs.
- the function of the operating elements is also possible without bus communication (emergency operation)
- the LO control elements functionally replace conventional switches and signal lamps in conventional control cabinets and electrical distribution boards

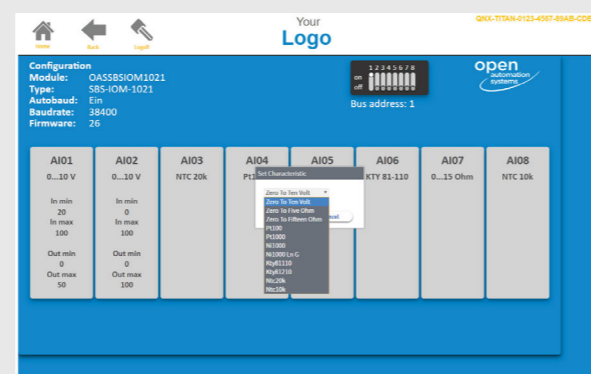
## Communication / MOD-Bus RTU

- MOD-Bus RTU is an open and globally proven standard that requires no investment in programming interfaces.
- The integration and communication with the automation station / Niagara platform takes place via a galvanically isolated RS 485 interface via / MOD bus RTU
- SBS IOM fieldbus modules work as MOD bus slaves on the MOD bus master (automation station).
- no further gateways required

## OAS I/O WEB Module Configurator

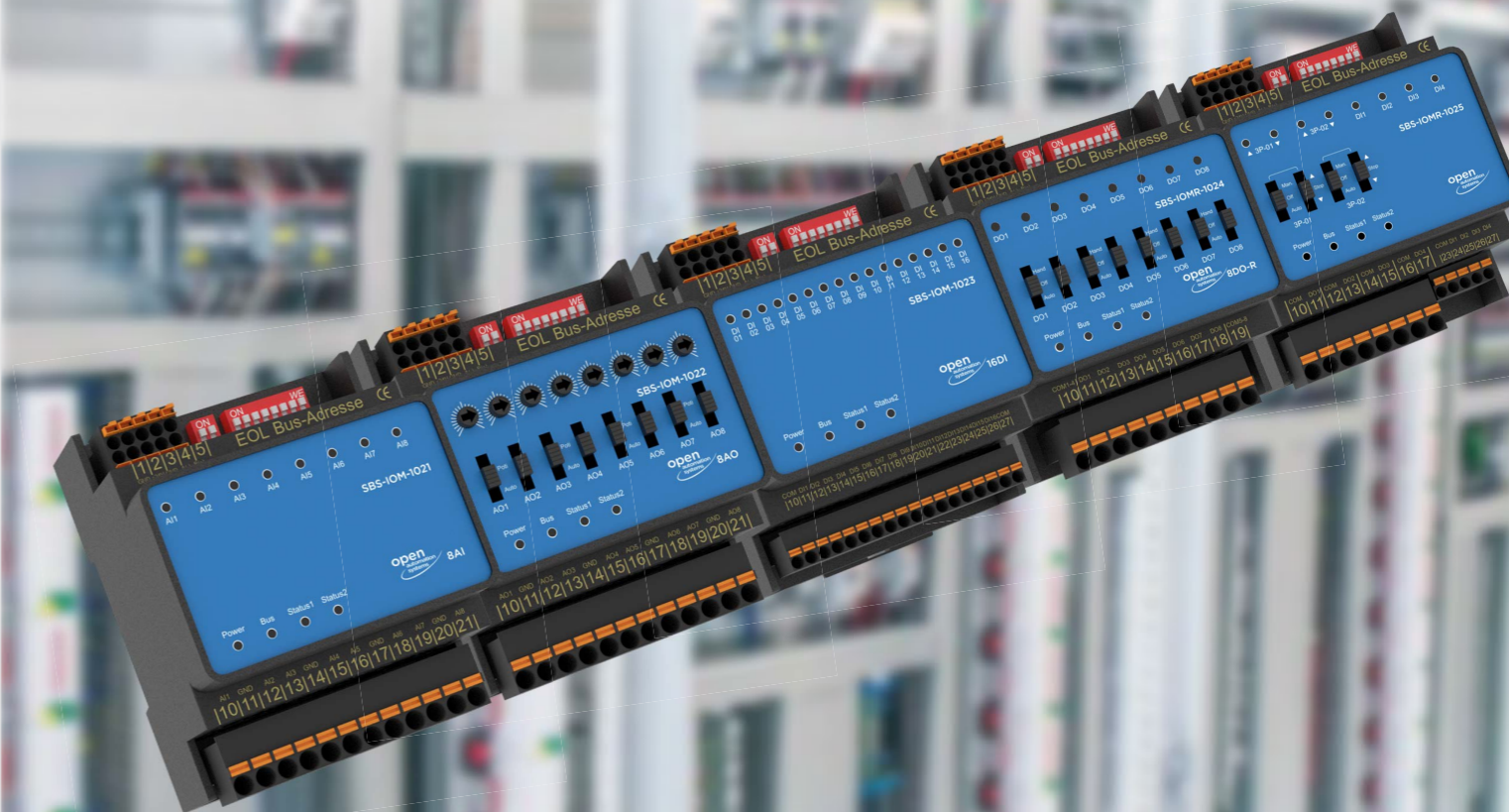
- Any configuration of communication settings is conveniently and partially automated via the OAS I/O Module Configurator on the Niagara automation platform.
- The configuration, monitoring and control of the inputs and outputs is implemented in automatic mode via the RS 485 interface.

# OAS I/O WEB MODULE CONFIGURATOR



TRIDIUM authorised distributor

powered by  
niagara framework®



## SBS IOM I/O FIELDBUS MODULES

### OPEN BUILDING AUTOMATION

## THE OPEN MODBUS I/O SYSTEM

The OAS-SBS-IOM series consists of compact fieldbus modules with inputs and outputs for mounting on DIN rails, on the mounting plate in the control cabinet or electrical distributor or in the 19" rack, for mounting on the door.

With our SBS series we offer IoT solutions and services that go far beyond the usual room and building automation.

→ [www.openautomationsystems.store](http://www.openautomationsystems.store)

IoT Solutions and Services  
for Smart Automation

open  
automation  
systems

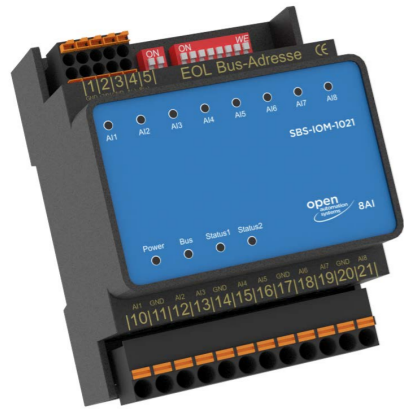
OAS Open AutomationSystems GmbH

Am Forst 26  
74889 Sinsheim, Germany  
Telephone: +49 7265 / 49 96 522  
Telefax: +49 7265 / 49 96 523

sales@oa-systems.de  
[www.openautomationsystems.store](http://www.openautomationsystems.store)

IoT Solutions and Services  
for Smart Automation

open  
automation  
systems



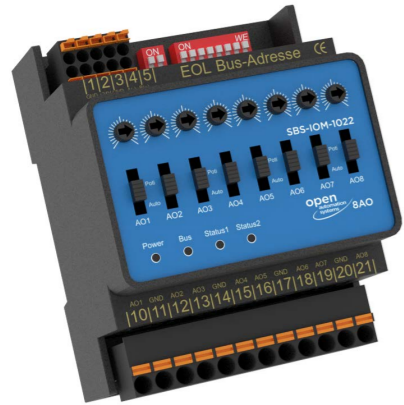
### OAS-SBS-IOM-1021

#### Analog inputs

**8 analog inputs: 8 AI module (active/passive), 8 x status LED**

Analog input modules SBS IOM 1021 are for input signals conventionally wired via terminals. The status and values will be passed over the bus to the Modbus master for further processing. Quantitative visualization of the input signal is possible by means of configurable sensor inputs (0-10 V and various RTD).

Part-Nr. OAS-SBS-IOM-1021



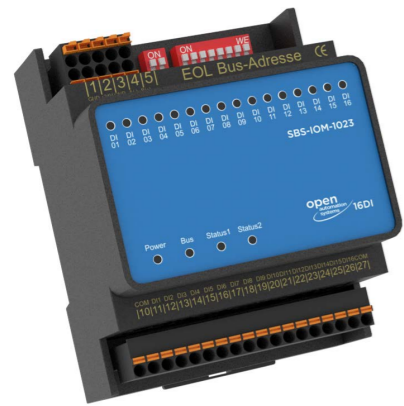
### OAS-SBS-IOMR-1022

#### Analog outputs

**8 analog outputs: 8 AO module (0..10V), 8 x Auto-Hand Poti**

Analog output modules SBS IOMR 1022 set output values via Modbus commands they receive. Manual override is possible with integrated sliding switches and potentiometers.

Part-Nr. OAS-SBS-IOMR-1022



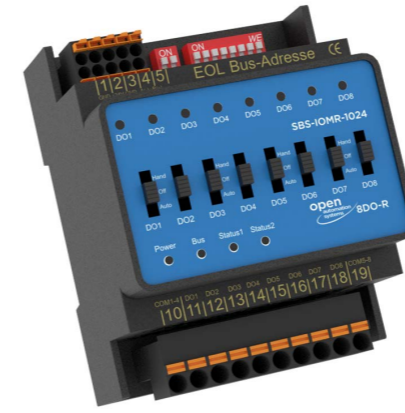
### OAS-SBS-IOM-1023

#### Digital - binary input

**16 digital - binary inputs: 16 DI module (24V), 16 x LED status red / green**

Digital signaling modules SBS IOM 1023 are for inputs conventionally wired via terminal. The status of the inputs will be passed over the bus to the Modbus master device for further processing.

Part-Nr. OAS-SBS-IOM-1023



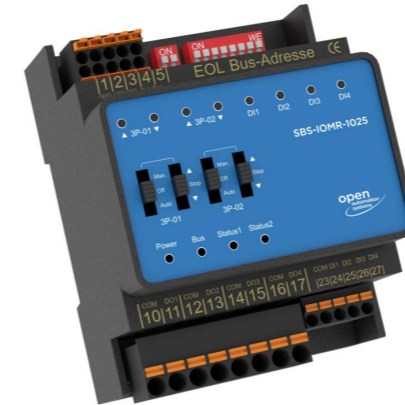
### OAS-SBS-IOMR-1024

#### Digital outputs 3A

**8 digital outputs 3A: 8 DO module relay outputs**

Digital output modules SBS IOMR 1024 with potential-free relay outputs (3 A at 250 VAC / 30 VDC, two groups with four relays each) allows for the activation of outputs by commands via Modbus or manual override with integrated sliding switches.

Part-Nr. OAS-SBS-IOMR-1024



### OAS-SBS-IOMR-1025

#### 3- point relay outputs

**2x 3-point relay outputs: 2x 3-point DO-/ 4x DI module**

Digital output module with 2 x 3-point relay outputs 230 V / 3 A in two groups, for controlling 2 OPEN - STOP - CLOSE actuators such as valves, flaps, shutters. Shutters or similar. LVB realisation by means of slide switch. 2 x Auto-Off -Man (manual) switch, 2 x OPEN - STOP - CLOSE - switch. Parameters such as running times, emergency position, etc. can be set conveniently via the NIAGARA N4-based OAS I/O WEB module configurator. The parameters are also available as open Modbus registers.

Part -Nr. OAS-SBS-IOMR-1025



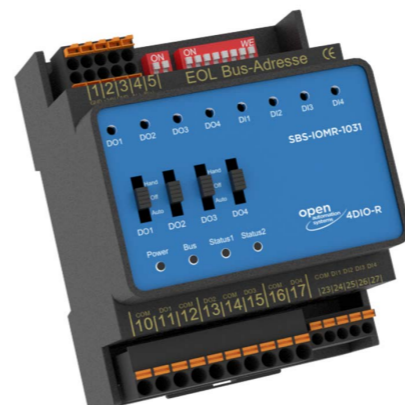
### OAS-SBS-IOMR-1026

#### Digital outputs 16A

**4 digital outputs 16A: 4 DO relay outputs each with LED and push button operation**

Digital output modules SBS IOMR 1026 contain four bistable relay outputs (16 A at 250 VAC - normally open contacts) and allows for the activation of outputs by commands via Modbus.

Part-Nr. OAS-SBS-IOMR-1026



### OAS-SBS-IOMR-1031

#### Digital outputs 3A and digital inputs

**4 digital outputs 3A and 4 digital inputs with LED: 4 DO- module relay outputs each with LED and auto off manual switch**

The module SBS IOMR 1031 provides four digital inputs and four digital outputs. Local Override/ Indication Device (LO/ID), i.e. by means of the integrated switches, the module provides the ability of manual override of the DOs which are usually controlled via Modbus commands.

Part-Nr. OAS-SBS-IOMR-1031

## SBS - Smart Building Solutions

Individual solutions for intelligent buildings / SBS Smart Building Solutions - we offer you everything you need. From the automation and control technology for your lighting and façade control system to the automation of the heating, ventilation and air conditioning system, we offer you both individual components and standardized and proven complete solutions. Thanks to our many years of experience in the field of process and building automation, we look forward to advising you accordingly.

