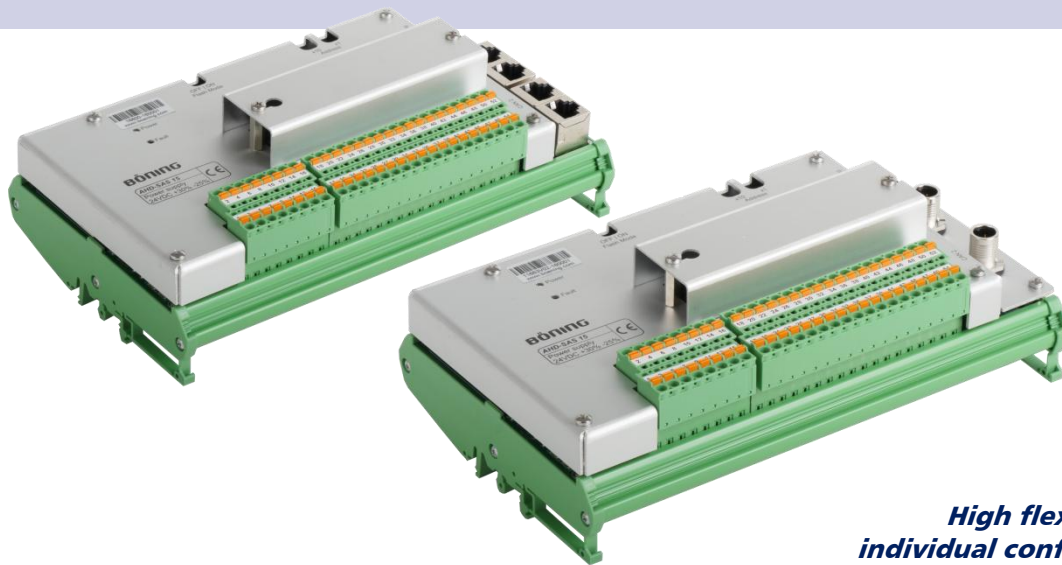


## **AHD-SAS 15 M12 / AHD-SAS 15 RJ45**

### **Data station with 15 inputs for analog and binary sensors**



The data station AHD-SAS 15 M12/RJ45 is used in alarm, monitoring and control systems for the acquisition, processing and monitoring of all kind of sensor values.

All common type of sensors can directly be connected and evaluated. The communication with the system's displays (like e.g. the 8.8" color display AHD 880 TC or the 19" panel PC AHD 1219 G) for presentation the of the data is carried out via CAN bus.

We offer two variants for the connection to the CAN bus: AHD-SAS 15 M12 is equipped with DeviceNet connectors; AHD-SAS 15 RJ45 provides Ethernet connectors (RJ45).

The data station is equipped with 15 inputs for the acquisition of analog or binary signals. The different types of input signals like e.g. resistance (max. 3300 Ohms), voltage (max. 44 V), current (max. 25 mA), binary inputs (contact or switched voltage) and NiCrNi sensors can be configured individually for each single input channel with pluggable input modules. This ensures a high level of flexibility. Usage of non-linear sensors (e.g. for tank content measurements) is easily possible.

Furthermore, additional virtual input channels can be created, whose resulting data are calculated from the inputs of multiple physical sensors, e.g. the total fuel as the sum of the contents of several tanks or the calculation of the mean value of exhaust gas temperatures from all cylinders of a Diesel engine.

***High flexibility by individual configuration of inputs with input modules***

***Decentralized operation with data communication via CAN bus***

***Usable as independently operating alarm and monitoring system***

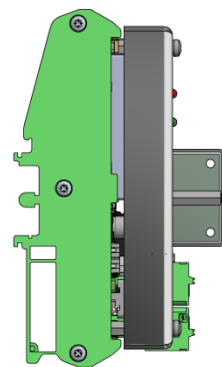
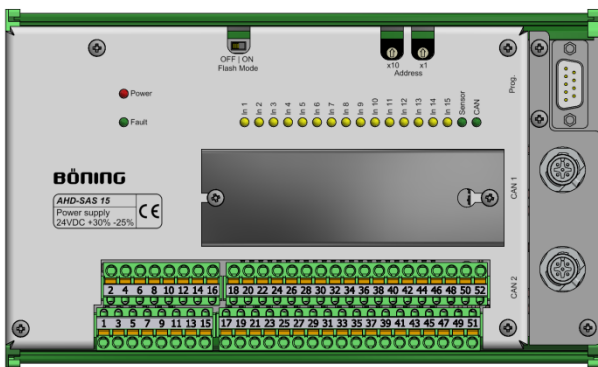
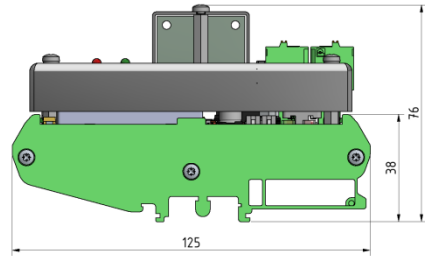
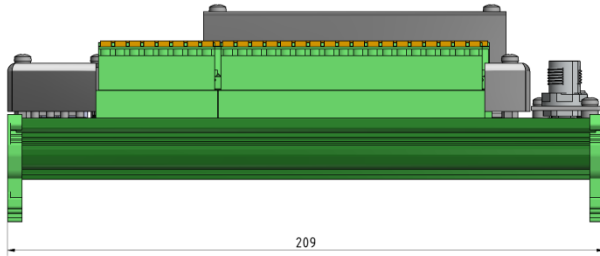
In general, data processing and alerting are performed in Panel PCs AHD 12xx or Data Processing Stations AHD-DPU 9. In this case, the user has the advantage that he can modify system settings on a display.

If no such device is in the Böning alarm, monitoring and control system, AHD-SAS 15 M12/RJ45 is configured to perform these tasks autonomously.

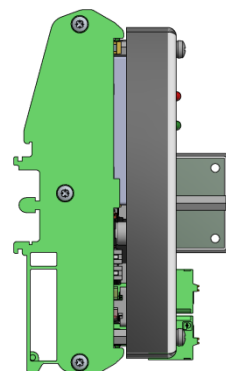
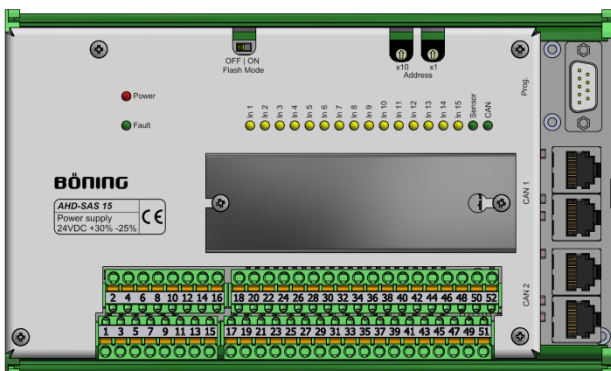
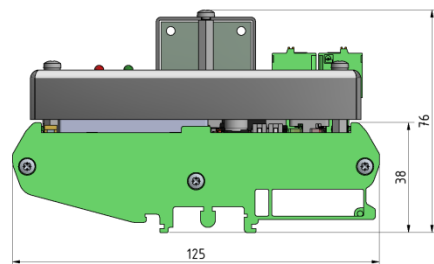
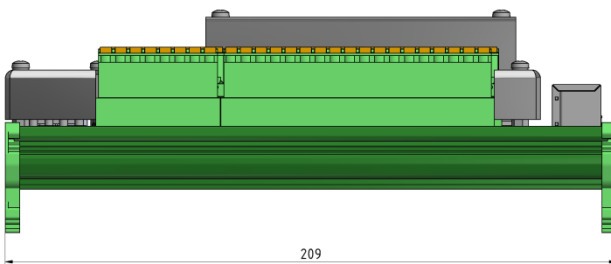
The device is equipped with inputs for the connection to Binary Data Stations AHD-PS 15/30/47 and outputs for the connection to Relay Stations AHD-R101.

The Relay Stations AHD-R101 can be used to signal alarms with e.g. horns or luminous call systems. If the device processes its data autonomously, integrated status LEDs display each input's alarm state.

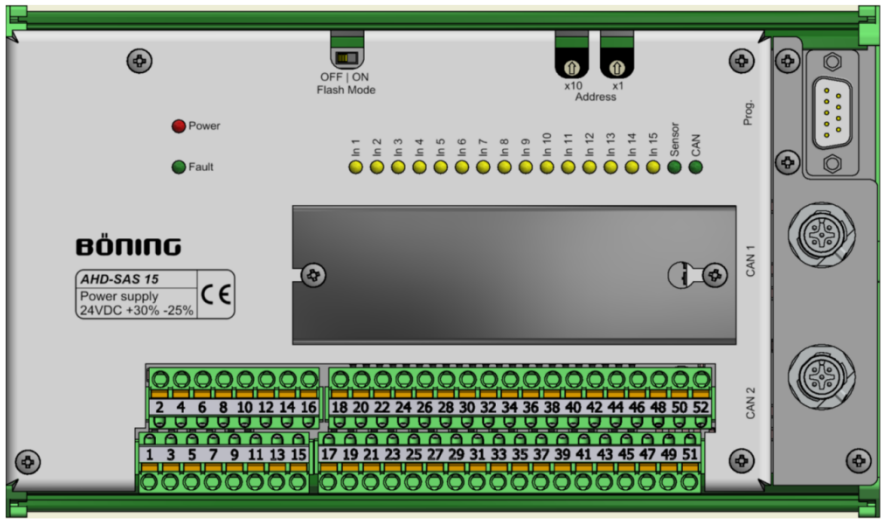
## AHD-SAS 15 M12



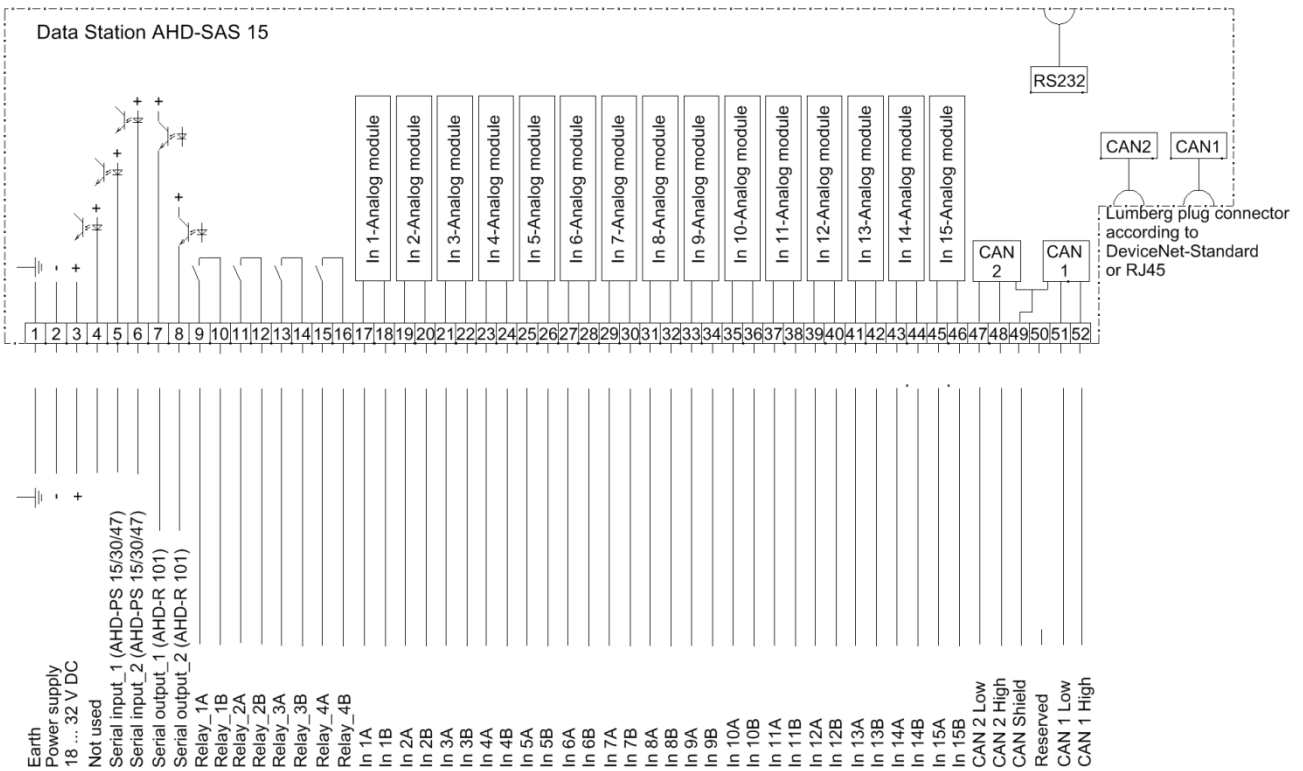
## AHD-SAS 15 RJ45



# Connection



Sub-D Plug Connector 9-pole



## Technical Data

### Mechanical Data

Dimension W x H x D 209 x 125 x 76 mm

Weight appr. 0.7 kg

### Environmental Data

Operating Temperature -30°C ... +70°C

Storage Temperature -50°C ... +85°C

Degree of Protection IP 20

Required Distance to  
Compass Standard magnetic compass: 50 cm  
Steering magnetic compass: 40 cm

### Electrical Data

Power Supply 24 V DC (+30% -25%)

Current Consumption max. 700 mA (24 V DC)

### Interfaces

Interfaces 2 x CAN bus (CAN1 and CAN2,  
DeviceNet or RJ45)  
2 x CAN bus (CAN1 and CAN2  
additionally on terminal strip)  
1 x RS232 (9-pole Sub-D)

Inputs 15 x Slot for binary and analog inputs,  
freely and individually equipable with  
analog modules according to the project  
specific configuration  
2 x serial (opto-coupler) from binary data  
stations AHD-PS 15/30/47

Outputs 4 x potential free relay contact,  
30 V DC/2 A max, freely configurable  
2 x serial (opto-coupler) to relay station  
AHD-R101

### Installation

Installation directly on DIN rails  
TS 32 or TS 35

### Approvals

Classification Societies ABS  
DNV GL  
LR  
RS

### Part Numbers

AHD-SAS 15 M12 11663V02

AHD-SAS 15 RJ45 16800

## Input Modules

Type	Input signal type:
Analog module B	Current sensor 4 – 20 mA, 2-pole
Analog module C	Current sensor 4 – 20 mA, 4-pole
Analog module E	Contact, UBat+ switched
Analog module F	Contact, potential free
Analog module F	Contact, UBat- switched
Analog module F	Transistor output, UBat- switched
Analog module G	Thermo resistance sensor PT100 (up to 220°C)
Analog module H	Thermo resistance sensor PT1000 (up to 220°C)
Analog module I	Thermo voltage sensor NiCrNi (up to 950°C)
Analog module J	Voltage sensor 0 – 5 V DC
Analog module K	Voltage sensor 0 – 10 V DC
Analog module L	Voltage sensor 0 – 30 V DC
Analog module M	RACOR Water detection
Analog module N	Frequency sensor 8 kHz
Analog module O	Blank module
Analog module P	Current sensor 20 mA, 2-pole differential
Analog module R	Thermo resistance sensor PT100 (up to 650°C) or PTC, NTC (68..330 Ohms)
Analog module S	Thermo resistance sensor PT1000 (up to 650°C) or PTC, NTC (680..3300 Ohms)
Analog module T	Voltage sensor 0 – 45 V DC
Analog module U	Resistance sensor 200 Ohms insulated
Analog module V	Voltage sensor 0 – 45 V DC insulated