

## Application

Integration of analog devices into AS-Interface · Conversion of AS-Interface data into a 4 to 20 mA signal

The Type 6150 AS-Interface Module converts AS-Interface data into an analog 4 to 20 mA signal. In this way, analog devices, such as control valves or positioners, can be easily integrated into an AS-Interface network. The devices merely need a connecting base that corresponds to DIN EN 175301-803. Devices without such a base can possibly be adapted (see Installation).

## Installation

For attachment to devices with a connector according to DIN EN 175301-803, simply plug on the Type 6150 AS-Interface Module. Connection to the AS-Interface module is established using a cable socket according to DIN EN 175301-803.

For devices without device connector and cable socket according to DIN EN 175301-803, the M20x1.5 cable gland is replaced by a device connector to install the AS-Interface module.

The AS-Interface module can be used with the following SAMSON devices:

**Table 1:** Application

| SAMSON device  | Device connector according to DIN EN ... |                 |
|--|--|-----------------|
|  | Replaces the M20x1.5 cable gland         | Already exists  |
| <b>Positioners</b>   |  |                 |
| Type 3725  | ● <sup>3)</sup>                          |                 |
| Types 3730-0/-1/-2   | ● <sup>3)</sup>                          |                 |
| Type 3760  | ● <sup>3)</sup>                          |                 |
| Type 3761  | ● <sup>3)</sup>                          |                 |
| Type 3767  | ● <sup>3)</sup>                          |                 |
| Type 4763  | ● <sup>3)</sup>                          |                 |
| <b>Series V2001 Valves with Type 3372 Electropneumatic Actuators</b> |  |                 |
| Type 3321-IP   |  | ● <sup>2)</sup> |
| Type 3323-IP   |  | ● <sup>2)</sup> |
| Type 3531-IP   |  | ● <sup>2)</sup> |
| Type 3535-IP   |  | ● <sup>2)</sup> |
| <b>i/p converters</b>  |  |                 |
| Type 6111  |  | ● <sup>1)</sup> |
| Type 6116  | ● <sup>3)</sup>                          |                 |
| Type 6126  |  | ●               |

<sup>1)</sup> Type 6111 i/p Converter in version with male angle connector

<sup>2)</sup> Series V2001 Valves in version with integrated positioner and plug connector

<sup>3)</sup> 6150-0300 version of AS-Interface module required

## Function

An analog end device connected to the Type 6150 AS-Interface Module forms an AS-Interface slave. The AS-Interface master assigns an address to this slave.



**Fig. 1:** Type 3372 Electropneumatic Actuator with Type 6150 AS-Interface Module

Certain errors are indicated on-site as specified by AS-Interface Specification 2.1. The Type 6150 AS-Interface Module has a green and a red LED to indicate the following states:

Green LED on: Power supply connected

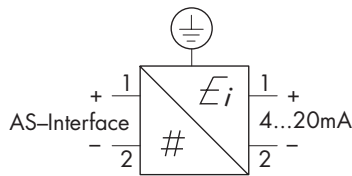
Red LED blinking: Device not connected or the data in the EEPROM are not available or incorrect

Red LED on: No communication with the AS-Interface master (faulty wiring)

**Table 2: Technical data**

|   |   |
|---|---|
| <b>Input</b>  | AS-Interface version 2.1  |
| <b>Output</b>                                       | 4 to 20 mA  |
| Resolution  | 0.025 mA/step   |
| Total current output                                | 2 to 22 mA  |
| Permissible load                                    | 300 Ω   |
| Output  | Short-circuit protection  |
| Power supply  | According to AS-Interface Specification (26.5 to 31.6 V DC)                   |
| Total current consumption from AS-Interface network | Max. 30 mA  |
| <b>Display</b>                                      |   |
| Green LED on  | Power supply connected  |
| Red LED blinking                                    | Device not connected or the data in the EEPROM are not available or incorrect |
| Red LED on  | No communication with the AS-Interface master (faulty wiring)                 |
| AS-i profile  | S 7.3   |
| I/O configuration                                   | 7 hex   |
| ID code   | 3   |
| Temperature range (operation)                       | - 10 to + 60 °C   |
| Degree of protection (when mounted)                 | IP 65   |
| Noise emission                                      | EN 50081 Part 1   |
| Noise immunity                                      | EN 50081 Part 2   |
| Electrical connection                               | According to DIN EN 175301-803  |
| Housing material                                    | Polyamide   |

**Electrical connection**



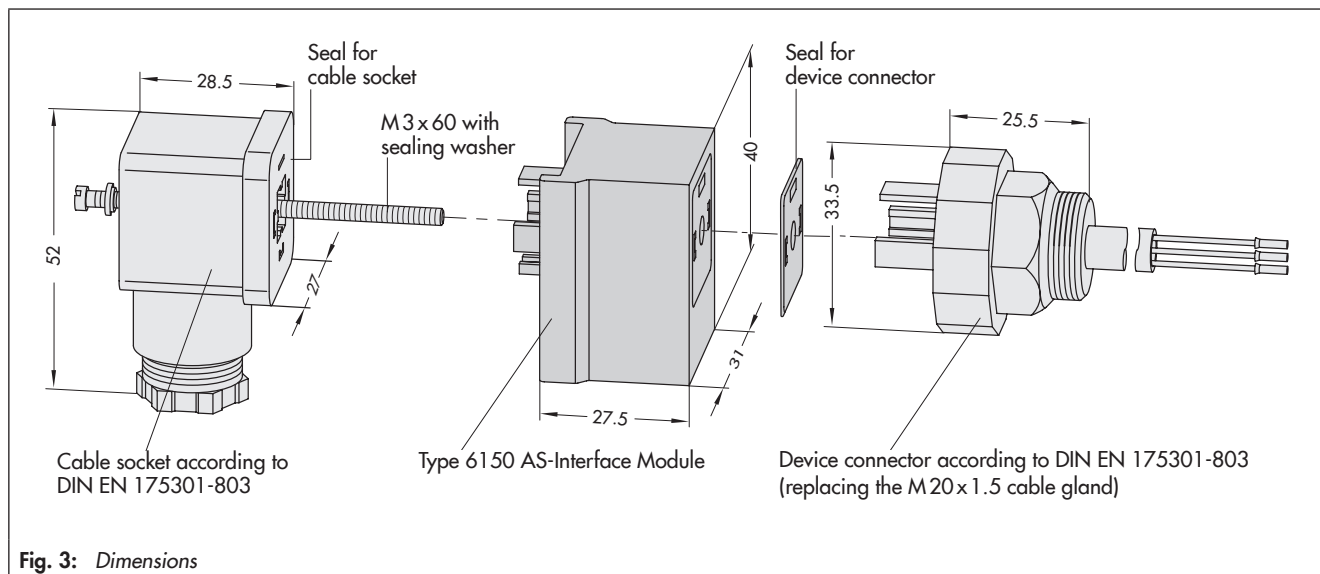
**Fig. 2: Electrical connection**

**Ordering data**

Complete order number as required

| Order no.                   | Type 6150 -   | ... | ... | ... | ... |
|-----------------------------|---|-----|-----|-----|-----|
| <b>Explosion protection</b> | Without   | 0   |     |     |     |
|                             | Module with seal and M3 x 60 screw  | 1   |     |     |     |
|                             | Module with cable socket, seal and M3 x 60 screw  | 2   |     |     |     |
| <b>Version</b>              | Module with cable socket, M20x1.5 device connector, seal and M3 x 60 screw                        | 3   |     |     |     |
|                             | Module with cable socket, device connector according to DIN EN 175301-803, seal and M3 x 60 screw | 4   |     |     |     |
| <b>Signal</b>               | Input: AS-Interface data · Output: 4 to 20 mA   | 0   |     |     |     |
| <b>Profile</b>              | AS-i S7.3   | 0   |     |     |     |

**Dimensions**



**Fig. 3: Dimensions**

Specifications subject to change without notice

