

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. The devices merely need a connecting base that corresponds to DIN EN 175301-803. If the devices do not have one, they can be adapted (see Installation).

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

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 indicates that the voltage supply is on.
- Red LED: If it is blinking, either there is no device connected or the data in the EEPROM are not available or incorrect. If the red LED is constantly illuminated, there is no communication with the AS-Interface master (faulty wiring).

Ordering text

Type 6150 AS-Interface Module

On ordering modules for devices without DIN EN 175301-803 connectors, also specify the device type:

- Type 3730 Positioner
- Type 3760 Positioner
- Type 3761 Positioner
- Type 3767 Positioner
- Type 4763 Positioner
- Type 6111 i/p Converter
- Type 6116 i/p Converter

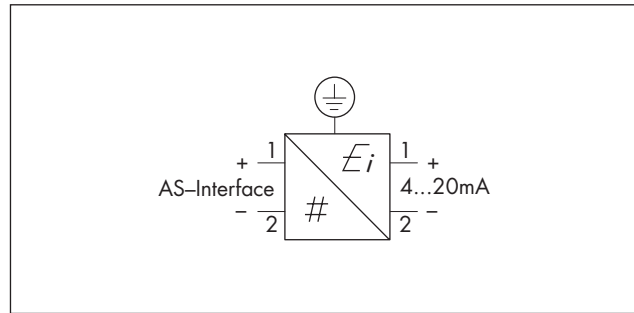


Fig. 1 · Type 6150 AS-Interface Module

Table 1 · Technical data

Input	AS-Interface Version 2.1	
Output	4 to 20 mA	
Total current output	2 to 22 mA	
Permissible load	300 Ω	
Output	Short-circuit protected	
Operating voltage	Acc. to AS-Interface specification (26.5 to 31.6 V DC)	
Total current consumption	30 mA	
Indicators	Green LED	On: Voltage supply connected
	Red LED	Blinking: No device connected or data in EEPROM not available or incorrect On: no communication with AS-Interface master (faulty wiring)
AS-i Profile	S 7.3	
I/O configuration	7 HEX	
ID code	3	
AS-i certificate	Pending	
Temperature range	-10 °C to 60 °C (operation)	
Degree of protection	IP 65 (when mounted)	
Degree of contamination	3	
Noise emission	EN 50081 Part 1	
Noise immunity	EN 50081 Part 2	
Electrical connection	Acc. to DIN EN 175301-803	
Resolution	0.025 mA/step	
Casing material	Polyamide	

Electrical connection



Installation

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

The following SAMSON devices without device connector corresponding to DIN EN 175301-803 can be adapted to the AS-Interface module:

SAMSON device	Device connector for	
	M 20 x 1.5	Case mounting
Positioner		
3730	x	
3760	x	
3761	x	
3767	x	
4763	x	
V2001 Valve		
3372-IP		x
i/p Converter		
6111		x ¹⁾
6116	x	

¹⁾ Type 6111 i/p Converter in special version

Dimensions

- 1 Device connector (only necessary with M20x1.5 connection)
- 2 Type 6150 AS-Interface Module
- 3 Cable socket (DIN EN 175301-803)

