

# AXL P AO4 HART 1F - Analog module



1087079

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Axioline P, Analog output module, Analog outputs: 4 (HART), 0 mA ... 20 mA, 4 mA ... 20 mA, connection technology: 2-conductor, transmission speed in the local bus: 100 Mbps, HART functionality, degree of protection: IP20, including bus base module and connectors

## Product description

The module is an Axioline P I/O module for use in the Axioline P modular I/O system. The module is a modular I/O device that can be affixed to the Axioline P local bus, to communicate I/O data up to the Axioline P bus coupler, which forms the head of the station. The module is fully hot-swappable and may be removed while under power. The module allows the connection of up to four HART devices. The analog output I/O module with HART capabilities manages analog output and HART data to and from the field I/O terminals and makes this information available to the bus coupler through the Axioline P local bus.

## Your advantages

- 4 analog output-powered control signals for HART
- Current range: 4 mA ... 20 mA and 0 mA ... 20 mA
- Cyclic access to PV, SV, TV, QV, and Loop Current
- Temperature range: -40 °C ... +70 °C
- Hot-swappable

## Commercial data

Item number	1087079
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR06
Product key	DRIP42
GTIN	4055626882468
Weight per piece (including packing)	355 g
Weight per piece (excluding packing)	353 g
Customs tariff number	85176200
Country of origin	US

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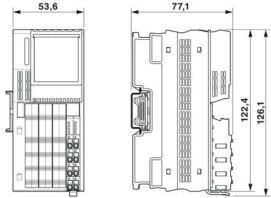


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## Technical data

### Dimensions

Dimensional drawing	
Width	53.6 mm
Height	126.1 mm
Depth	77.14 mm
Note on dimensions	The depth applies when a TH 35-7.5 DIN rail is used (in accordance with EN 60715).

### Notes

Note on application	
Note on application	Only for industrial use
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
Utilization restriction	
CCCEX note	Use in potentially explosive areas is not permitted in China.

### Interfaces

Axioline P local bus	
Number of interfaces	2
Connection method	Bus base module
Transmission speed	100 Mbps

### System properties

Module	
Input address area	32 Byte (Firmware 1.00) 40 Byte (Firmware 1.02 or later)
Output address area	8 Byte

### Output data

Analog:	
Output name	Analog outputs
Connection method	Push-in connection
Connection technology	2-conductor

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Note regarding the connection technology	shielded, twisted pair
Number of outputs	4 (HART)
D/A converter resolution	16 bit
Protective circuit	Short-circuit and overload protection; Electronic per channel Transient protection; Suppressor diode
Data formats	Inline, S7-compatible, standard formatting
Representation of output values	16 bits
Process data update	1.9 ms (Analog output latency)
Current output signal	0 mA ... 20 mA 4 mA ... 20 mA

## Product properties

Product type	I/O component
Product family	Axioline P
Type	block modular
Mounting position	any (no temperature derating)
Scope of supply	including bus base module and connectors
Special properties	HART functionality

## Insulation characteristics

Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

## Electrical properties

Maximum power dissipation for nominal condition	2.55 W
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## Potentials: Supply voltage ( $U_L$ )

Supply voltage	24 V DC (via bus base module)
Supply voltage range	19.2 V DC ... 30 V DC
Current draw	max. 160 mA (via bus base module) typ. 115 mA (via bus base module)
Protective circuit	Surge protection; electronic (35 V, 0.5 s) Reverse polarity protection; Polarity protection diode Transient protection; Suppressor diode

## Potentials: Axioline P local bus supply ( $U_{BUS}$ )

Supply voltage	5 V DC (via bus base module)
Current draw	max. 135 mA typ. 110 mA

## Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply of the local bus ( $U_{BUS}$ ) / functional ground	500 V AC, 60 Hz, 1 min
Test voltage: 5 V supply of the local bus ( $U_{BUS}$ ) / analog inputs	500 V AC, 60 Hz, 1 min
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 60 Hz, 1 min
Test voltage: 24 V supply (I/O) / analog inputs	500 V AC, 60 Hz, 1 min

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Test voltage: Analog inputs / functional ground	500 V AC, 60 Hz, 1 min
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## Connection data

### Connection technology

Connection name	Axioline P connector
Note on the connection method	Please observe the information provided on conductor cross-sections in the "Axioline P: System and installation" user manual.

### Axioline P connector

Connection method	Push-in connection
Note on the connection method	Please observe the information provided on conductor cross-sections in the "Axioline P: System and installation" user manual.
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 16
Stripping length	8 mm

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 2000 m above sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Approvals

### ATEX

Identification	II 3G Ex ec IIC T4 Gc
Certificate	DEMKO 20 ATEX 2334X

### IECEX

Identification	Ex ec IIC T4 Gc
Certificate	IECEX UL 20.0002X

### UKCA Ex (UKEX)

Identification	II 3G Ex ec IIC T4 Gc
Certificate	PxCAI22UKEx1052416X

### UL, USA/Canada

Identification	cULus
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Certificate	E238705
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## UL Ex, USA / Canada

Identification	Class I, Division 2, Groups A, B, C, D, T4
	Class I, Zone 2, IIC T4
Certificate	E196811

## CCC / China-Ex

Identification	Ex ec IIC T4 Gc
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## Ex data

UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T4
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## Mounting

Mounting type	DIN rail mounting
Mounting position	any (no temperature derating)

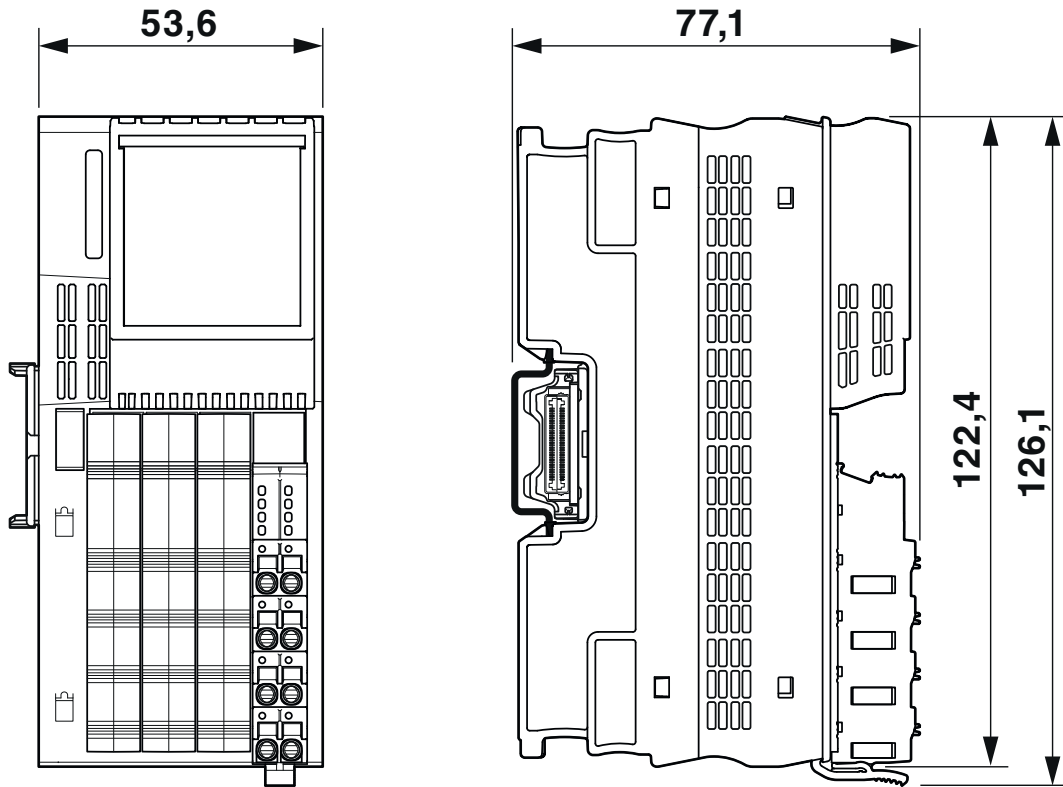
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## Drawings

Dimensional drawing

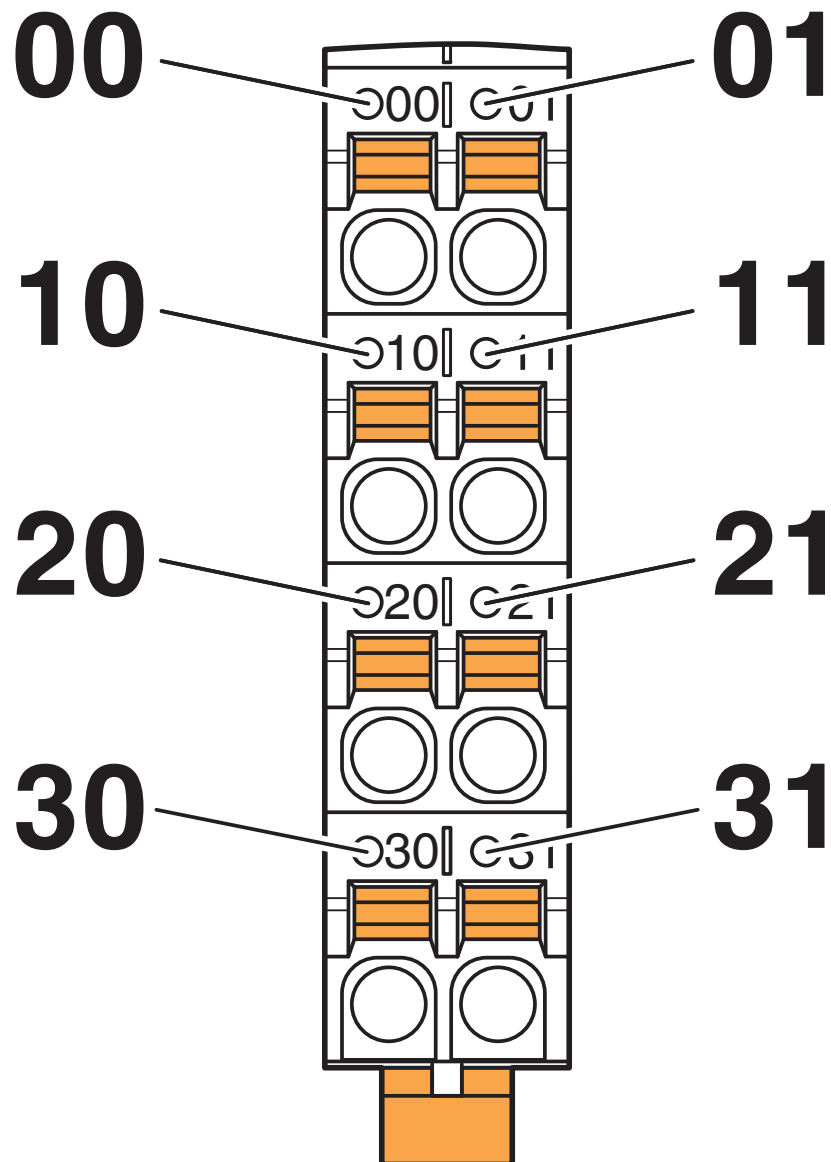


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Connection diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1087079>



**cULus Listed**

Approval ID: E238705



**IECEX**

Approval ID: IECEX UL 20.0002X



**cUL Listed**

Approval ID: E196811



**UL Listed**

Approval ID: E196811



**ATEX**

Approval ID: DEMKO 20 ATEX 2334X

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## Classifications

### ECLASS

ECLASS-13.0	27242601
ECLASS-15.0	27242601

### ETIM

ETIM 10.0	EC001596
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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