

# AXL P AI8 P HART 1F - Analog module



1215392

<https://www.phoenixcontact.com/us/products/1215392>

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Axioline P, Analog input module, Passive analog inputs: 8 (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 Axioline P 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 analog input I/O module with HART capabilities collects analog input and HART data from the field I/O terminals and makes this information available to the bus coupler through the Axioline P local bus. The passive analog input module allows the connection of up to eight HART enabled, active analog input signals. The module is fully hot-swappable and may be removed while under power.

## Your advantages

- Passive analog input module
- Sinks power from up to eight HART enabled, active analog input signals
- Cyclic access to PV, SV, TV, QV, and Loop Current
- Current ranges: 0 mA ... 20 mA, 4 mA ... 20 mA
- Can be used under extreme ambient conditions
- Temperature range: -40 °C ... +70 °C
- Hot-swappable

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1215392       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DR06          |
| Product key                          | DRIP41        |
| GTIN                                 | 4063151295233 |
| Weight per piece (including packing) | 372.3 g       |
| Weight per piece (excluding packing) | 249 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | US            |

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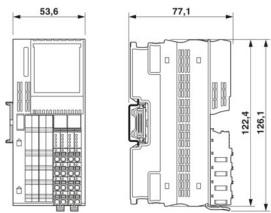


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## Technical data

### Dimensions

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 53.6 mm                                                                            |
| Height              | 126.1 mm                                                                           |
| Depth               | 77.1 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 |

### Material specifications

|                 |                 |
|-----------------|-----------------|
| Color (Housing) | gray (RAL 7042) |
|-----------------|-----------------|

### Interfaces

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

### System properties

|                                  |         |
|----------------------------------|---------|
| Programming data (LocalbusSlave) |         |
| Input address area               | 48 Byte |
| Output address area              | 0 Byte  |

### Input data

|                          |                                           |
|--------------------------|-------------------------------------------|
| Analog:                  |                                           |
| Input name               | Passive analog inputs                     |
| Description of the input | HART enabled passive analog input signals |
| Number of inputs         | 8 (HART)                                  |

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|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| A/D conversion time                      | 500 µs                                     |
| Connection method                        | Push-in connection                         |
| Connection technology                    | 2-conductor                                |
| Note regarding the connection technology | shielded, twisted pair                     |
| Current input signal                     | 0 mA ... 20 mA<br>4 mA ... 20 mA           |
| A/D converter resolution                 | 12 bit                                     |
| Data formats                             | Inline, S7-compatible, standard formatting |
| Limit frequency (3 dB)                   | min. 10 Hz<br>max. 25 Hz                   |
| Measured value representation            | 16 bits (15 bits + sign bit)               |
| Protective circuit                       | Polarity reversal protection of the inputs |

## 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 Axioline P 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 | 2.15 W |
|-------------------------------------------------|--------|

## 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. 27 mA (via bus base module)<br>typ. 22 mA (via bus base module)                                                                           |
| Protective circuit   | Surge protection; electronic (35 V, 0.5 s)<br>Reverse polarity protection; Polarity protection diode<br>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<br>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 |

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|                                                     |                        |
|-----------------------------------------------------|------------------------|
| 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 |
| Test voltage: Analog inputs / functional ground     | 500 V AC, 60 Hz, 1 min |

## 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)                     |

### Mechanical test

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | 5g  |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27              | 30g |
| Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27   | 10g |

## Standards and regulations

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

## Approvals

### ATEX

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

### IECEx

|                |                 |
|----------------|-----------------|
| Identification | Ex ec IIC T4 Gc |
|----------------|-----------------|

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|             |                   |
|-------------|-------------------|
| Certificate | IECEX UL 20.0002X |
|-------------|-------------------|

## UKCA Ex (UKEX)

|                |                       |
|----------------|-----------------------|
| Identification | II 3G Ex ec IIC T4 Gc |
| Certificate    | PxCAI22UKEEx1052416X  |

## UL, USA/Canada

|                |         |
|----------------|---------|
| Identification | cULus   |
| Certificate    | E238705 |

## 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 |
|----------------|-----------------|

## Mounting

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

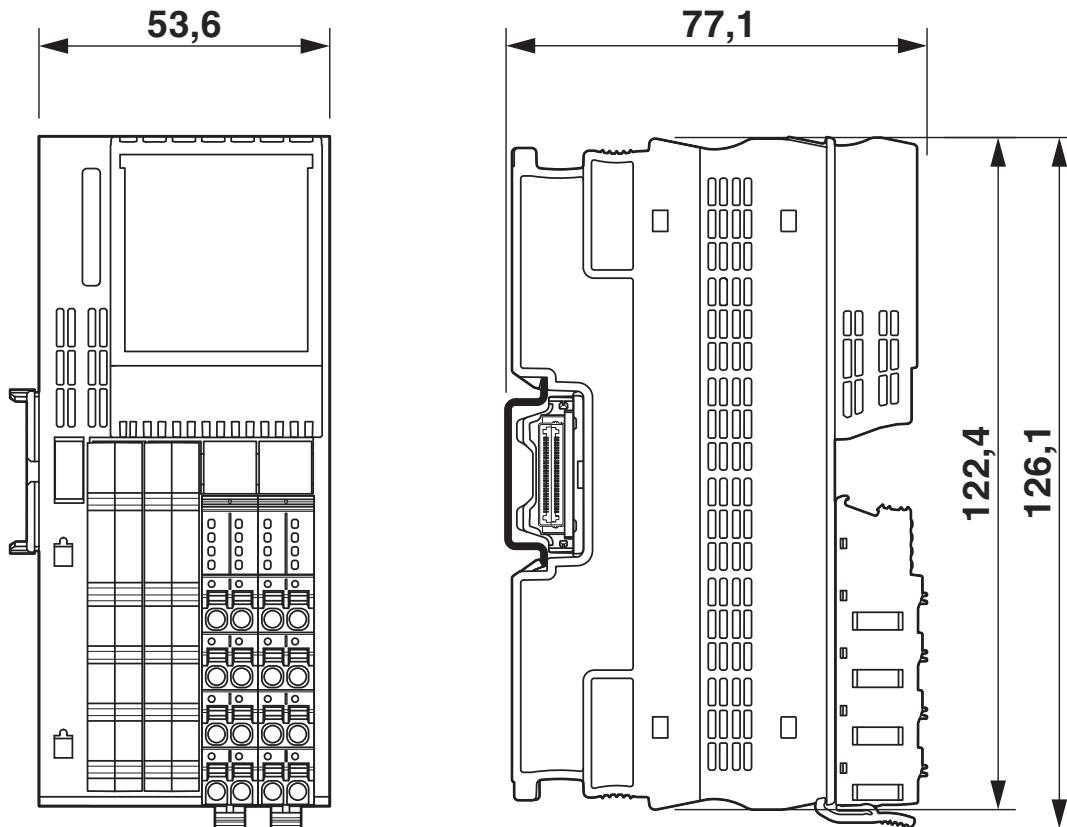
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## Drawings

Dimensional drawing



Dimensional drawing

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1215392>



**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



**cULus Listed**

Approval ID: E196811

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242601 |
| ECLASS-15.0 | 27242601 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001596 |
|-----------|----------|

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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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