

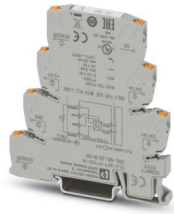
# PLC-APT-PT100-IN - Analog module



2906919

<https://www.phoenixcontact.com/us/products/2906919>

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Pt 100/Pt 1000 temperature transducer for PLC logic logic modules (Generation 2 only), single-channel, signal type (Pt 100, Pt 1000) can be configured via DIP switch, Push-in connection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2906919       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C424          |
| Product key                          | DK2622        |
| GTIN                                 | 4055626155500 |
| Weight per piece (including packing) | 73 g          |
| Weight per piece (excluding packing) | 50.3 g        |
| Customs tariff number                | 85389099      |
| Country of origin                    | DE            |

## Technical data

### Notes

|                    |  |
|--------------------|--|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |
|--------------------|--|

### Product properties

|                |                       |
|----------------|-----------------------|
| Product type   | Extension module      |
| Product family | PLC logic             |
| Operating mode | 100% operating factor |

#### Insulation characteristics: Air clearances and creepage distances

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 2                |

### Electrical properties

#### Air clearances and creepage distances

|                          |        |
|--------------------------|--------|
| Rated insulation voltage | 50 V   |
| Rated surge voltage      | 0.5 kV |

#### Supply

|  |                             |
|--|-----------------------------|
| Rated control circuit supply voltage $U_S$                 | 24 V DC                     |
| Rated control supply voltage range with reference to $U_S$ | 0.8 ... 1.1                 |
| Rated control supply current $I_S$                         | 14 mA                       |
| Protective circuit   | Reverse polarity protection |
|  | Surge protection            |

### Input data

#### Analog input resistance

|                                     |   |
|-------------------------------------|---|
| Sensor types (RTD) that can be used | Pt 100 (IEC 60751, $\alpha = 0,00385$ ) |
| Number of inputs                    | 1                                       |
| Connection technology               | 2-conductor                             |
| Sensor input current                | 900 $\mu$ A                             |
| Temperature measuring range         | -50 °C ... 200 °C                       |
| Maximum temperature coefficient     | 0.01 %/K                                |
| Maximum transmission error          | 1 %                                     |
| Surge voltage protection            | > 33 V                                  |
| Resolution                          | 10 bit (scaled to 0 to 1000)            |

#### Analog input resistance

|                                     |  |
|-------------------------------------|--|
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|-------------------------------------|--|

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| Sensor input current            | 900 $\mu$ A                  |
| Temperature measuring range     | -50 °C ... 200 °C            |
| Maximum temperature coefficient | 0.01 %/K                     |
| Maximum transmission error      | 1 %                          |
| Surge voltage protection        | > 33 V                       |
| Resolution                      | 10 bit (scaled to 0 to 1000) |

## Output data

### Digital

|                         |                    |
|-------------------------|--------------------|
| Output name             | Digital output     |
| Switching voltage range | 5 V DC ... 30 V DC |
| Switching current       | $\leq$ 3 mA        |

## Connection data

|                                  |  |
|----------------------------------|--|
| Connection method                | Push-in connection                           |
| Stripping length                 | 10 mm  |
| Number of connections            | 4  |
| Conductor cross-section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 26 ... 14                                    |

## Signaling

|                           |           |
|---------------------------|-----------|
| Operating voltage display | Green LED |
| Error indication          | Red LED   |

## Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 80 mm  |
| Depth  | 94 mm  |

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Degree of protection                    | IP20             |
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

## Approvals

CE

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|                |               |
|----------------|---------------|
| Certificate    | CE-compliant  |
| UL, USA/Canada |               |
| Identification | UL 508 Listed |

## Standards and regulations

Air clearances and creepage distances

|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

## Mounting

|                   |                           |
|-------------------|---------------------------|
| Mounting type     | DIN rail mounting         |
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

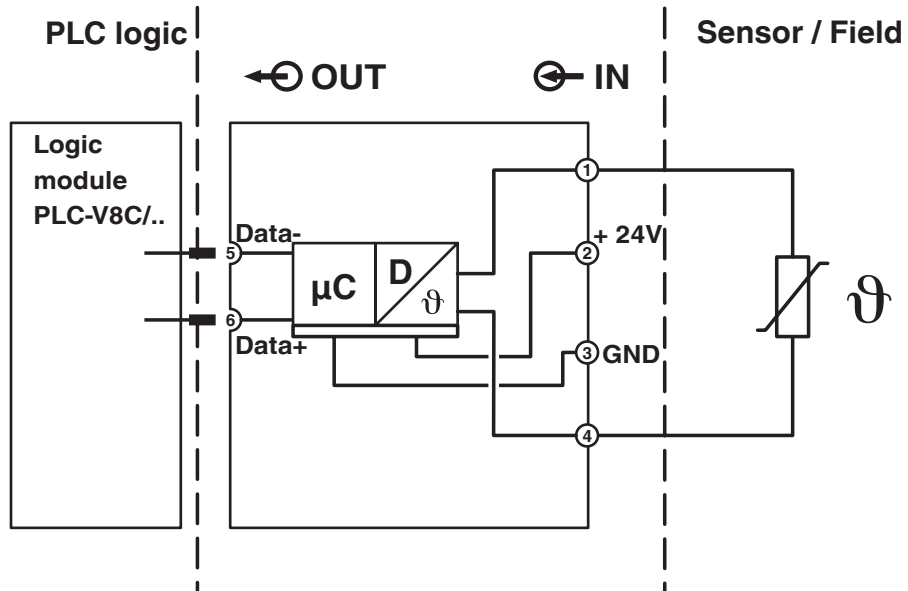
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## Drawings

Block diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2906919>



**EAC**

Approval ID: RU\*DE.\*08.B.01517/19



**UL Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E238705

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242201 |
| ECLASS-15.0 | 27242201 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001420 |
|-----------|----------|

### 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-50   |
|  | 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)   |
|                                     | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7) |
| SCIP                                | 9b8eefa1-17ef-4128-be9a-cd6923b16263                           |

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