

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



2902032

<https://www.phoenixcontact.com/pc/products/2902032>

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Analog frequency transducer with limit value functionality and plug-in connection technology for converting standard signals into frequency or PWM signals. Configurable via DIP switch or software. Push-in connection technology, standard configuration.

## Product description

Configurable, freely adjustable analog frequency transducer with additional switching output, limit value functionality, and plug-in connection technology for converting standard analog signals to frequency signals or to pulse width modulated signals (PWM signals). Current signals between 0 mA ... 24 mA and voltage signals between 0 V ... 12 V can be processed on the input side. Frequency signals between 0 ... 11 kHz and PWM signals between 0% ... 100% are possible on the output side. In addition, the output can also be operated as a switching output, which means that two switching thresholds can be set independently of one another. The minimum measuring span is 1 mA and 0.5 V. Full accuracy is maintained with a measuring span greater than 10 mA and 5 V. You can configure the device using one of the free software solutions. Default settings can also be made directly on the device by simply using the DIP switches (see configuration table). The measuring transducer supports fault monitoring and NFC communication.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2902032       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DK1126        |
| GTIN                                 | 4046356652049 |
| Weight per piece (including packing) | 119.6 g       |
| Weight per piece (excluding packing) | 118.5 g       |
| Customs tariff number                | 85437090      |
| Country of origin                    | DE            |

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## Technical data

### Notes

#### Utilization restriction

|          |                                                                           |
|----------|---------------------------------------------------------------------------|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---------------------------------------------------------------------------|

### Product properties

|                 |                             |
|-----------------|-----------------------------|
| Product type    | Frequency value transformer |
| Product family  | MINI Analog Pro             |
| No. of channels | 1                           |
| Configuration   | DIP switches                |
|                 | Software                    |
|                 | App                         |

#### Insulation characteristics: GB Standard

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree     | 2  |

### System properties

#### Functionality

|               |              |
|---------------|--------------|
| Configuration | DIP switches |
|               | Software     |
|               | App          |

### Electrical properties

|                                               |                                                          |
|-----------------------------------------------|----------------------------------------------------------|
| Electrical isolation between input and output | yes                                                      |
| Step response (0–99%)                         | 120 ms (15 Hz sample rate)                               |
|                                               | 35 ms (60 Hz sample rate)                                |
|                                               | 15 ms (240 Hz sample rate, can only be set via software) |
|                                               | 130 ms (15 Hz sample rate)                               |
|                                               | 40 ms (60 Hz sample rate)                                |
|                                               | 20 ms (240 Hz sample rate, can only be set via software) |
| Maximum temperature coefficient               | < 0.01 %/K                                               |
| Temperature coefficient, typical              | 0.01 %/K                                                 |

#### Electrical isolation Input/output/power supply

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| Rated insulation voltage | 300 V <sub>rms</sub>                              |
| Test voltage             | 3 kV AC (50 Hz, 60 s)                             |
| Insulation               | Reinforced insulation according to IEC/EN 61010-1 |

#### Supply

|                        |         |
|------------------------|---------|
| Nominal supply voltage | 24 V DC |
|------------------------|---------|

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|                             |                                                                                                                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply voltage range        | 9.6 V DC ... 30 V DC (The DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, item no. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail in accordance with EN 60715) |
| Typical current consumption | 27 mA (12 V DC)                                                                                                                                                                                                |
|                             | 13.5 mA (24 V DC)                                                                                                                                                                                              |
| Power consumption           | ≤ 350 mW (9.6 V DC)                                                                                                                                                                                            |

## Input data

Signal: Voltage/current

|                                   |                                          |
|-----------------------------------|------------------------------------------|
| Number of inputs                  | 1                                        |
| Configurable/programmable         | Yes                                      |
| Voltage input signal              | 0 V ... 10 V (via DIP switch)            |
|                                   | 2 V ... 10 V (via DIP switch)            |
|                                   | 0 V ... 5 V (via DIP switch)             |
|                                   | 1 V ... 5 V (via DIP switch)             |
|                                   | 10 V ... 0 V (via DIP switch)            |
|                                   | 10 V ... 2 V (via DIP switch)            |
|                                   | 5 V ... 0 V (via DIP switch)             |
|                                   | 5 V ... 1 V (via DIP switch)             |
|                                   | 0 V ... 12 V (can be set via software)   |
| Max. voltage input signal         | 12 V                                     |
| Current input signal              | 0 mA ... 20 mA (via DIP switch)          |
|                                   | 4 mA ... 20 mA (via DIP switch)          |
|                                   | 0 mA ... 10 mA (via DIP switch)          |
|                                   | 2 mA ... 10 mA (via DIP switch)          |
|                                   | 20 mA ... 0 mA (via DIP switch)          |
|                                   | 20 mA ... 4 mA (via DIP switch)          |
|                                   | 10 mA ... 0 mA (via DIP switch)          |
|                                   | 10 mA ... 2 mA (via DIP switch)          |
|                                   | 0 mA ... 24 mA (can be set via software) |
| Max. current input signal         | 24 mA                                    |
| Input resistance of voltage input | > 120 kΩ                                 |
| Input resistance current input    | approx. 50 Ω (+0.7 V for test diode)     |

## Output data

Frequency: Frequency/transistor

|                  |                                   |
|------------------|-----------------------------------|
| Frequency output | 0 Hz ... 10 kHz (via DIP switch)  |
|                  | 0 Hz ... 5 kHz (via DIP switch)   |
|                  | 0 Hz ... 2.5 kHz (via DIP switch) |
|                  | 0 Hz ... 1 kHz (via DIP switch)   |
|                  | 0 Hz ... 500 Hz (via DIP switch)  |
|                  | 0 Hz ... 250 Hz (via DIP switch)  |
|                  | 0 Hz ... 100 Hz (via DIP switch)  |
|                  |                                   |

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|                            |                                                                             |
|----------------------------|-----------------------------------------------------------------------------|
|                            | 0 Hz ... 50 Hz (via DIP switch)                                             |
|                            | 0 Hz ... 10.5 kHz (can be set via software)                                 |
| Load min.                  | $4 \text{ mA} \leq (U_L / R_L) \leq 100 \text{ mA}$                         |
| Maximum transmission error | $\leq 0.1 \% (> 7 \text{ kHz} \leq 0.2 \%)$                                 |
| Output signal PWM          | 15.6 kHz (10 bits, via DIP switch)                                          |
|                            | 1.9 kHz (10 bits, via DIP switch)                                           |
|                            | 3.9 kHz (12 bits, via DIP switch)                                           |
|                            | 488 Hz (12 bits, via DIP switch)                                            |
|                            | 977 Hz (14 bits, via DIP switch)                                            |
|                            | 122 Hz (14 bits, via DIP switch)                                            |
|                            | 244 Hz (16 bits, via DIP switch)                                            |
|                            | 31 Hz (16 bits, via DIP switch)                                             |
|                            | 31 Hz ... 15.6 kHz (can be set via software)                                |
| Load min.                  | $12 \text{ mA} \leq (U_L / R_L) \leq 100 \text{ mA}$                        |
| Maximum transmission error | $< 0.2 \% (\text{PWM frequency} \leq \text{Ⓢ} \text{ Hz})$                  |
|                            | $< 0.5 \% (500 \text{ Hz} < \text{PWM frequency} \leq \text{Ⓢ} \text{ Hz})$ |
|                            | $< 1 \% (2000 \text{ Hz} < \text{PWM frequency} \leq \text{Ⓢ} \text{ Hz})$  |
|                            | $< 2 \% (4000 \text{ Hz} < \text{PWM frequency} \leq \text{Ⓢ} \text{ Hz})$  |
|                            | $< 3 \% (8000 \text{ Hz} < \text{PWM frequency} \leq \text{Ⓢ} \text{ Hz})$  |
| Load current maximum       | 100 mA                                                                      |
| Maximum switching voltage  | 30 V DC                                                                     |
| Overrange/underrange       | can be set (via software)                                                   |

## Switching: Transistor

|                           |                   |
|---------------------------|-------------------|
| Number of outputs         | 1                 |
| Contact switching type    | 1 N/O contact     |
| Minimum switching voltage | 1 V DC            |
| Maximum switching voltage | 30 V DC           |
| Min. switching current    | 100 $\mu\text{A}$ |
| Max. switching current    | 100 mA (30 V DC)  |

## Signal

|                   |   |
|-------------------|---|
| Number of outputs | 1 |
|-------------------|---|

## Connection data

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| Connection method                | Push-in connection                                             |
| Stripping length                 | 10 mm                                                          |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (with ferrule)     |
|                                  | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (without ferrule) |
| Conductor cross-section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                   |
| Conductor cross-section AWG      | 24 ... 12 (flexible)                                           |

## Ex data

|                       |        |
|-----------------------|--------|
| Ex installation (EPL) | Gc     |
|                       | Div. 2 |

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## Interfaces

Data: IFS interface

|                   |                  |
|-------------------|------------------|
| Connection method | Micro USB type B |
|-------------------|------------------|

## Signaling

|                  |         |
|------------------|---------|
| Error indication | Red LED |
|------------------|---------|

## Dimensions

|        |           |
|--------|-----------|
| Width  | 6.2 mm    |
| Height | 109.81 mm |
| Depth  | 119.2 mm  |

## Material specifications

|                                                        |                 |
|--------------------------------------------------------|-----------------|
| Color                                                  | gray (RAL 7042) |
| Housing material                                       | PBT             |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 2     |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 2     |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 2     |

## Environmental and real-life conditions

Ambient conditions

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Degree of protection                    | IP20 (not assessed by UL)     |
| Ambient temperature (operation)         | -40 °C ... 70 °C              |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C              |
| Altitude                                | ≤ 2000 m                      |
| Permissible humidity (operation)        | 5 % ... 95 % (non-condensing) |

## Approvals

CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

ATEX

|                |                          |
|----------------|--------------------------|
| Identification | Ⓔ II 3 G Ex ec IIC T4 Gc |
| Certificate    | BVS 19 ATEX E 083 X      |

IECEX

|                |                    |
|----------------|--------------------|
| Identification | Ex ec IIC T4 Gc    |
| Certificate    | IECEX BVS 19.0072X |

UL, USA/Canada

|                |                                       |
|----------------|---------------------------------------|
| Identification | UL 508 Listed                         |
|                | Class I, Div. 2, Groups A, B, C, D T6 |
|                | Class I, Zone 2, Group IIC T6         |

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



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## Shipbuilding approval

|             |                          |
|-------------|--------------------------|
| Certificate | DNV GL TAA000021E Rev. 1 |
|-------------|--------------------------|

## EAC Ex

|                |                                 |
|----------------|---------------------------------|
| Identification | Ex ec IIC T4 Gc                 |
| Certificate    | BY/112 02.01 TP012 103.01 00081 |

## Shipbuilding data

|             |                                                                                         |
|-------------|-----------------------------------------------------------------------------------------|
| Temperature | B                                                                                       |
| Humidity    | B                                                                                       |
| Vibration   | A                                                                                       |
| EMC         | A                                                                                       |
| Enclosure   | Required protection according to the Rules shall be provided upon installation on board |

## EMC data

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Electromagnetic compatibility | Conformance with EMC directive                                       |
| Noise immunity                | EN 61000-6-2                                                         |
| Note                          | When being exposed to interference, there may be minimal deviations. |

## Noise emission

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-6-4 |
|-----------------------|--------------|

## Standards and regulations

### GB Standard

|                       |           |
|-----------------------|-----------|
| Standards/regulations | GB 3836.1 |
|                       | GB 3836.8 |

## Mounting

|                   |                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|
| Mounting type     | DIN rail mounting                                                                                                     |
| Assembly note     | The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail. |
| Mounting position | any                                                                                                                   |

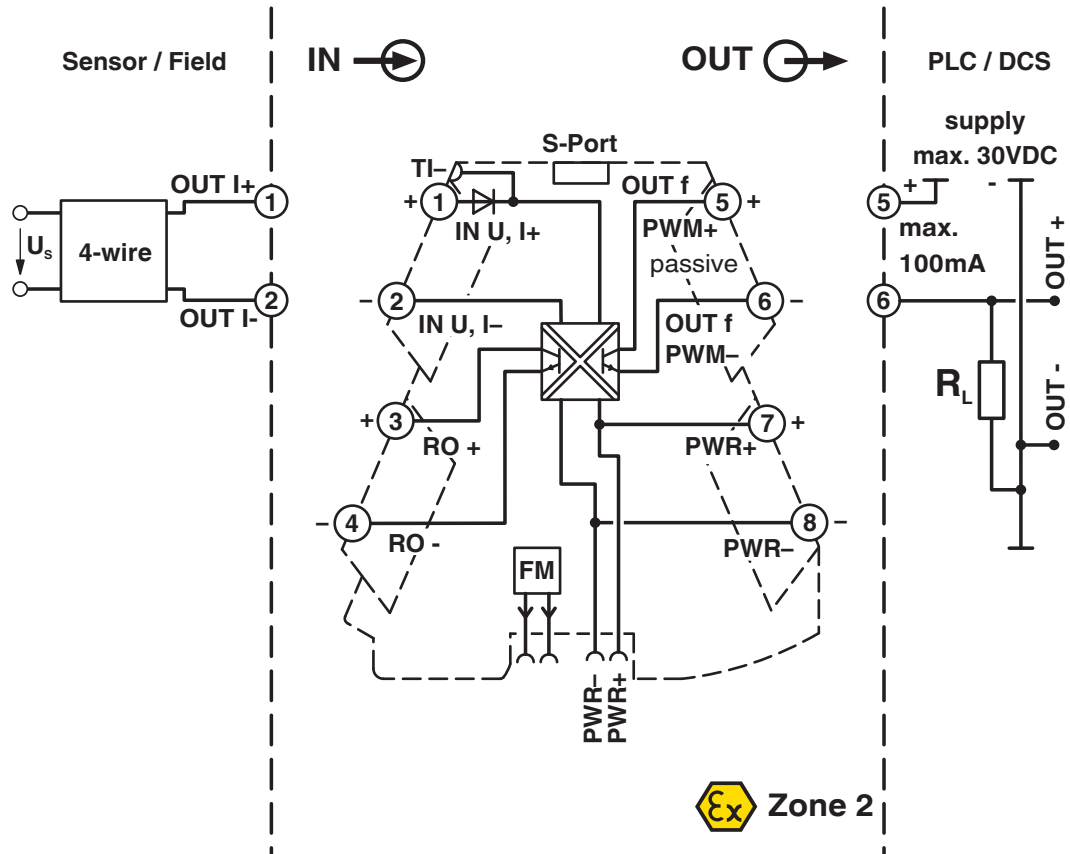
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## Drawings

Block diagram



# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2902032>



**EAC**

Approval ID: RU\*DE.\*08.B.01536/19



**UL Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E238705

**DNV**

Approval ID: TAA000021E



**IECEx**

Approval ID: IECEx BVS 19.0072X



**cUL Listed**

Approval ID: E196811



**UL Listed**

Approval ID: E196811



**ATEX**

Approval ID: BVS 19 ATEX E 083 X



**EAC Ex**

Approval ID: TR TS\_S\_103.01.00081

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27210128 |
| ECLASS-15.0 | 27210128 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002918 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121000 |
|-------------|----------|

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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                                | 5e96ac0d-c5a2-448b-a6f0-3929cc30925d                           |

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 2.263 kg CO2e |
|---------|---------------|

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



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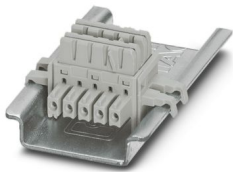
<https://www.phoenixcontact.com/pc/products/2902032>

## Accessories

ME 6,2 TBUS-2 1,5/5-ST-3,81 GY - DIN rail bus connector

2695439

<https://www.phoenixcontact.com/pc/products/2695439>



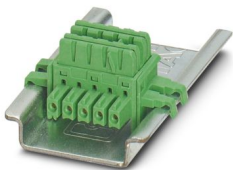
DIN rail bus connector (TBUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rail in accordance with EN 60715

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ME 6,2 TBUS-2 1,5/5-ST-3,81 GN - DIN rail bus connector

2869728

<https://www.phoenixcontact.com/pc/products/2869728>



DIN rail bus connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



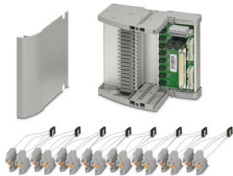
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<https://www.phoenixcontact.com/pc/products/2902032>

## TC-D37SUB-AIO16-MP-PS-UNI - Module carrier

2906640

<https://www.phoenixcontact.com/pc/products/2906640>



Universal Termination Carrier for connecting 16 MINI Analog Pro signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection), with HART multiplexer connection

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## TC-D37SUB-ADIO16-MP-P-UNI - Module carrier

2906639

<https://www.phoenixcontact.com/pc/products/2906639>



Universal Termination Carrier for connecting 16 MINI Analog Pro signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection)

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



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## MINI MCR-2-V8-FLK 16 - System adapter

2901993

<https://www.phoenixcontact.com/pc/products/2901993>



Eight MINI Analog Pro signal conditioners and measuring transducers can be connected to a controller with minimal cabling effort and without any errors using system adapters and system cabling.

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## MINI MCR-2-V8-MOD-RTU - Communication module

2905634

<https://www.phoenixcontact.com/pc/products/2905634>



Eight MINI Analog Pro signal conditioners and measuring transducers are quickly and easily integrated into a Modbus/RTU network via a communication adapter.

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



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## MINI MCR-2-V8-MOD-TCP - Communication module

2905635

<https://www.phoenixcontact.com/pc/products/2905635>



Eight MINI Analog Pro signal conditioners and measuring transducers are quickly and easily integrated into a Modbus/TCP network via a communication adapter.

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## MINI MCR-2-V8-PB-DP - Communication module

2905636

<https://www.phoenixcontact.com/pc/products/2905636>



Eight MINI Analog Pro signal conditioners and measuring transducers are quickly and easily integrated into a PROFIBUS DP network via a communication adapter.

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



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## MINI MCR-2-V8-PN - Communication module

2905637

<https://www.phoenixcontact.com/pc/products/2905637>



Eight MINI Analog Pro signal conditioners and measuring transducers can be quickly and easily integrated into a PROFINET network via a communication adapter.

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## IFS-USB-PROG-ADAPTER - Programming adapter

2811271

<https://www.phoenixcontact.com/pc/products/2811271>



Programming adapter with USB interface, for programming with software. The USB driver is included in the software solutions for the products to be programmed, such as measuring transducers or motor managers.

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



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<https://www.phoenixcontact.com/pc/products/2902032>

## IFS-BT-PROG-ADAPTER - Adapter

2905872

<https://www.phoenixcontact.com/pc/products/2905872>



Bluetooth adapter with micro USB and S-PORT interface for wireless communication with the MINI Analog, MINI Analog Pro, MACX Analog, Interface System Gateways, and PLC logic device series.

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## TWN4 MIFARE NFC USB ADAPTER - Programming adapter

2909681

<https://www.phoenixcontact.com/pc/products/2909681>



Near Field Communication (NFC) programming adapter with USB interface for the wireless configuration of NFC-capable products from Phoenix Contact with software. A separate USB driver is not required.

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## FASTCON PRO-SET - Connector set

2906227

<https://www.phoenixcontact.com/pc/products/2906227>



FASTCON Pro plug set consisting of four plugs with screw connection, one for each position on the module. Suitable for all MINI Analog Pro modules.

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## FASTCON PRO-SET-PT - Connector set

2906228

<https://www.phoenixcontact.com/pc/products/2906228>



FASTCON Pro plug set consisting of four plugs with push-in connection, one for each position on the module. Suitable for all MINI Analog Pro modules.

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



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## UCT-EM (30X5) - Marker for end clamp

0801505

<https://www.phoenixcontact.com/pc/products/0801505>



Marker for end clamp, Sheet, white, unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME 2.0, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, TOPMARK NEO, TOPMARK LASER, mounting type: latching, Number of individual labels: 24, text field height: 5 mm, text field width: 30 mm

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## UCT-EM (30X5) CUS - Marker for end clamp

0801589

<https://www.phoenixcontact.com/pc/products/0801589>



Marker for end clamp, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snapped into marker carrier, Number of individual labels: 24, text field height: 5 mm, text field width: 30 mm

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## SK 5,0 WH:REEL - Marker strip

0805221

<https://www.phoenixcontact.com/pc/products/0805221>



Marker strip, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 10, text field height: 5 mm, text field width: 90000 mm

---

## UC-EMLP (15X5) - Plastic label

0819301

<https://www.phoenixcontact.com/pc/products/0819301>



Plastic label, Sheet, white, unmarked, can be labeled with: BLUEMARK E. CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, Number of individual labels: 10, text field height: 5 mm, text field width: 15 mm

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



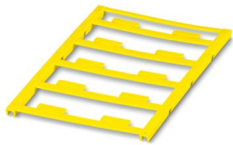
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<https://www.phoenixcontact.com/pc/products/2902032>

## UC-EMLP (15X5) YE - Plastic label

0822615

<https://www.phoenixcontact.com/pc/products/0822615>



Plastic label, Sheet, yellow, unmarked, can be labeled with: BLUEMARK E. CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, Number of individual labels: 10, text field height: 5 mm, text field width: 15 mm

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## UC-EMLP (15X5) CUS - Plastic label

0824550

<https://www.phoenixcontact.com/pc/products/0824550>



Plastic label, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: adhesive, text field height: 5 mm, text field width: 15 mm

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



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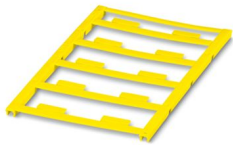
<https://www.phoenixcontact.com/pc/products/2902032>

## UC-EMLP (15X5) YE CUS - Plastic label

0824551

<https://www.phoenixcontact.com/pc/products/0824551>

Plastic label, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: adhesive, text field height: 5 mm, text field width: 15 mm



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## UC-EMLP (15X5) SR - Plastic label

0828095

<https://www.phoenixcontact.com/pc/products/0828095>

Plastic label, Sheet, silver, unmarked, can be labeled with: BLUEMARK E. CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, Number of individual labels: 10, text field height: 5 mm, text field width: 15 mm



# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



2902032

<https://www.phoenixcontact.com/pc/products/2902032>

## UC-EMLP (15X5) SR CUS - Plastic label

0828099

<https://www.phoenixcontact.com/pc/products/0828099>



Plastic label, can be ordered: by sheet, silver, labeled according to customer specifications, mounting type: adhesive, Number of individual labels: 10, text field height: 5 mm, text field width: 15 mm

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## US-EMLP (15X5) - Plastic label

0828790

<https://www.phoenixcontact.com/pc/products/0828790>



Plastic label, Card, white, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 189, text field height: 5 mm, text field width: 15 mm

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



2902032

<https://www.phoenixcontact.com/pc/products/2902032>

## US-EMLP (15X5) YE - Plastic label

0828873

<https://www.phoenixcontact.com/pc/products/0828873>



Plastic label, Card, yellow, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 189, text field height: 5 mm, text field width: 15 mm

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## US-EMLP (15X5) SR - Plastic label

0828874

<https://www.phoenixcontact.com/pc/products/0828874>



Plastic label, Card, silver, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 189, text field height: 5 mm, text field width: 15 mm

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



2902032

<https://www.phoenixcontact.com/pc/products/2902032>

## US-EMLP (15X5) CUS - Plastic label

0830076

<https://www.phoenixcontact.com/pc/products/0830076>

Plastic label, Card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, Number of individual labels: 189, text field height: 5 mm, text field width: 15 mm



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## US-EMLP (15X5) YE CUS - Plastic label

0830077

<https://www.phoenixcontact.com/pc/products/0830077>

Plastic label, Card, can be ordered: by card, yellow, labeled according to customer specifications, mounting type: adhesive, Number of individual labels: 189, text field height: 5 mm, text field width: 15 mm



# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



2902032

<https://www.phoenixcontact.com/pc/products/2902032>

## US-EMLP (15X5) SR CUS - Plastic label

0830078

<https://www.phoenixcontact.com/pc/products/0830078>

Plastic label, Card, can be ordered: by card, silver, labeled according to customer specifications, mounting type: adhesive, Number of individual labels: 189, text field height: 5 mm, text field width: 15 mm



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## UCT-EM (30X5) YE - Marker for end clamp

0830340

<https://www.phoenixcontact.com/pc/products/0830340>

Marker for end clamp, Sheet, yellow, unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME 2.0, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, TOPMARK NEO, TOPMARK LASER, mounting type: latching, Number of individual labels: 24, text field height: 5 mm, text field width: 30 mm



# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



2902032

<https://www.phoenixcontact.com/pc/products/2902032>

## UCT-EM (30X5) YE CUS - Marker for end clamp

0830348

<https://www.phoenixcontact.com/pc/products/0830348>

Marker for end clamp, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: snapped into marker carrier, Number of individual labels: 24, text field height: 5 mm, text field width: 30 mm



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## MINI MCR-2-PTB - Power terminal block

2902066

<https://www.phoenixcontact.com/pc/products/2902066>

Power terminal with plug-in connection technology for delivering the supply voltage to the DIN rail connector. Monitoring of the supply voltages in combination with the fault monitoring module. Screw connection technology



# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



2902032

<https://www.phoenixcontact.com/pc/products/2902032>

## MINI MCR-2-PTB-PT - Power terminal block

2902067

<https://www.phoenixcontact.com/pc/products/2902067>



Power terminal with plug-in connection technology for delivering the supply voltage to the DIN rail connector. Monitoring of the supply voltages in combination with the fault monitoring module. Push-in connection technology

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## QUINT4-SYS-PS/1AC/24DC/2.5/SC - Power supply

2904614

<https://www.phoenixcontact.com/pc/products/2904614>



Primary-switched power supply, QUINT POWER, screw connection, DIN rail mounting, supply of devices possible via the TBUS DIN rail connector, protective coating, input: single-phase, output: 24 V DC/2.5 A

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



2902032

<https://www.phoenixcontact.com/pc/products/2902032>

## MINI MCR-2-FM-RC - Monitoring block

2904504

<https://www.phoenixcontact.com/pc/products/2904504>



Fault monitoring module with plug-in connection technology for evaluating and reporting group errors from the FM system and for monitoring the supply voltages. Error message via N/C contact. Screw connection technology, standard configuration

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## MINI MCR-2-FM-RC-PT - Monitoring block

2904508

<https://www.phoenixcontact.com/pc/products/2904508>



Fault monitoring module with plug-in connection technology for evaluating and reporting group errors from the FM system and for monitoring the supply voltages. Error message via N/C contact. Push-in connection technology, standard configuration

# MINI MCR-2-UI-FRO-PT - Frequency measuring transducer



2902032

<https://www.phoenixcontact.com/pc/products/2902032>

## SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/pc/products/1205053>



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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