

ECM-UC-10A-UI - Current measuring transducer



1136504

<https://www.phoenixcontact.com/us/products/1136504>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Current measuring transducers for measuring AC, DC, and distorted currents. Configuration via USB-C interface via the web server (without 24 V DC). Four current measuring ranges: 0 A ... 0.1 A to 0 A ... 12.5 A. Standard configuration, Push-in connection

Commercial data

Item number	1136504
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CMMA33
GTIN	4063151073107
Weight per piece (including packing)	149.6 g
Weight per piece (excluding packing)	149.6 g
Customs tariff number	85043129
Country of origin	DE

Technical data

Product properties

Product type	Current measuring transducer
Insulation characteristics	
Insulation	Safe isolation in accordance with IEC/EN 61010-1
Overvoltage category	III (300 V)
Pollution degree	2

Electrical properties

Step response (10-90%)	200 ms (AC/DC)
	20 ms (DC)
Maximum temperature coefficient	< 0.02 %/K
Maximum transmission error	0.5 % (of nominal range value under nominal conditions)
Rated insulation voltage	300 V AC (to earth)

Electrical isolation IEC 61010-2-030

Standards/regulations	IEC 61010-2-030
Measuring category	III (300 V)

Electrical isolation Input/output

Test voltage	4 kV AC (50 Hz, 60 s)
--------------	-----------------------

Electrical isolation Input/power supply

Test voltage	4 kV AC (50 Hz, 60 s)
--------------	-----------------------

Electrical isolation Output/supply

Test voltage	2 kV AC (50 Hz, 60 s)
--------------	-----------------------

Supply

Nominal supply voltage	24 V DC
Nominal supply voltage range	12 V DC ... 24 V DC -20 % ... +25 %
Supply voltage range	9.6 V DC ... 30 V DC
Power consumption	≤ 2.3 W (30 V DC)

Input data

Signal: digital

Voltage input signal	0 V DC ... 30 V DC
Current input signal	2 mA ... 15 mA

Measurement

Input current range	0 A AC ... 10 A AC
	-10 A DC ... 10 A DC
Measuring range	0 A AC/DC ... 0.1 A AC/DC
	0 A AC/DC ... 1 A AC/DC

ECM-UC-10A-UI - Current measuring transducer



1136504

<https://www.phoenixcontact.com/us/products/1136504>

	0 A AC/DC ... 5 A AC/DC
	0 A AC/DC ... 10 A AC/DC
Setting range for min. input current	0 A AC/DC ... 100 mA AC/DC
Setting range for max. input current	0 A AC/DC ... 12.5 A AC/DC (DIN/EN 61010-1)
	0 A AC/DC ... 10 A AC/DC (UL 61010-1)
	-12.5 A DC ... 12.5 A DC (DIN/EN 61010-1)
	-10 A DC ... 10 A DC (UL 61010-1)
Overload capacity	$2 \times I_N$
Surge strength	$10 \times I_N$
Frequency measuring range	0 Hz ... 100 Hz
	0 Hz ... 200 Hz
	0 Hz ... 500 Hz
	0 Hz ... 1000 Hz
Curve type	AC, DC or distorted currents

Output data

Signal: Voltage/current

Voltage output signal	0 V ... 10 V
	0 V ... 5 V
	1 V ... 5 V
	2 V ... 10 V
	-10 V ... 10 V
	-5 V ... 5 V
	10 V ... -10 V
	5 V ... -5 V
	10 V ... 0 V
	5 V ... 0 V
Current output signal	0 mA ... 20 mA
	4 mA ... 20 mA
	20 mA ... 0 mA
	20 mA ... 4 mA
Load/output load voltage output	> 10 k Ω
Load/output load current output	< 500 Ω

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 13

Interfaces

WBM

ECM-UC-10A-UI - Current measuring transducer



1136504

<https://www.phoenixcontact.com/us/products/1136504>

Designation	WBM: Default address, USB-C interface
IP address	192.168.128.1

Dimensions

Item dimensions

Width	22.6 mm
Height	106.7 mm
Depth	113.8 mm
Depth (Device depth (DIN rail mounting))	114.5 mm (Snapped onto DIN rail NS 35/7,5 in accordance with EN 60715)

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
Housing material	PA 6.6-FR

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 60 °C -40 °F ... 140 °F
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 4000 m
Permissible humidity (operation)	≤ 95 % (non-condensing)

Approvals

CE

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

UL, USA/Canada

Identification	Ind. Cont. Eq. E238705-E196811
----------------	--------------------------------

EMC data

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2

Noise emission

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

Standards and regulations

Standards/regulations	IEC 61010-1
Standards/regulations	IEC/EN 61131-2 (type 3)
Standards/regulations	IEC/EN 61131-2 (type 3)

ECM-UC-10A-UI - Current measuring transducer



1136504

<https://www.phoenixcontact.com/us/products/1136504>

Mounting

Mounting position

vertical or horizontal

ECM-UC-10A-UI - Current measuring transducer



1136504

<https://www.phoenixcontact.com/us/products/1136504>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1136504>



cULus Listed

Approval ID: E238705



cULus Listed

Approval ID: E196811



cULus Listed

Approval ID: E196811

ECM-UC-10A-UI - Current measuring transducer



1136504

<https://www.phoenixcontact.com/us/products/1136504>

Classifications

ECLASS

ECLASS-13.0	27210123
ECLASS-15.0	27210123

ETIM

ETIM 10.0	EC002475
-----------	----------

UNSPSC

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

1136504

<https://www.phoenixcontact.com/us/products/1136504>

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)

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com