PHŒNIX CONTACT

Temperature measuring transducer - MACX MCR-EX-TS-I-OLP-SP - 2908661

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The output-loop-powered temperature transmitter transmits up to two sensor signals from RTD and TC sensors as well as from resistance-type sensors and voltage sensors via HART communication or 4 ... 20 mA, configurable. SIL 2/3, intrinsic safety, Push-in connection.

RoHS
COMPLETE line

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 355436
GTIN	4055626355436
Weight per Piece (excluding packing)	205.700 g
Custom tariff number	85437090
Country of origin	Germany
Sales Key	CK3322

Technical data

Dimensions

Width	12.5 mm
Height	116 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
	-40 °C ... 70 °C (SIL active)
Ambient temperature (storage/transport)	-40 °C ... 100 °C
Maximum altitude	≤ 4000 m (Above sea level)
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Degree of protection	IP20 (not assessed by UL)

Power supply

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Power supply

Supply voltage range	12 V ... 42 V (Standard)

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.2 mm² ... 1.5 mm²
Conductor cross section flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16

General

Step response (0–99%)	0.8 s (TC)
Degree of pollution	2
Overvoltage category	II
Color	gray

Conformance/approvals

Designation	CE
Certificate	CE-compliant
Designation	ATEX
Identification	# II 2 (1) G Ex ib [ia Ga] IIC T6...T4 Gb
Certificate	EPS 17 ATEX 1 130 X
Designation	IECEx
Identification	Ex ib [ia Ga] IIC T6...T4 Gb
Certificate	IECEx EPS 17.0076X
Designation	UL, USA/Canada
Identification	UL 61010 Recognized
Designation	FM
Identification	Exia / Class I / Div. 1, 2 / Group ABCD
	NI, Class I, Div. 2, Groups A, B, C, D
Designation	CSA
Identification	AIS / Class I / Div. 1 / ABCD
	NI / Class I / Div. 2 / ABCD T6/T5/T4
Designation	Shipbuilding approval
Certificate	DNV GL TAA00002GX
Temperature	D
Humidity	B
Vibration	A
EMC	B
Enclosure	A

Environmental Product Compliance

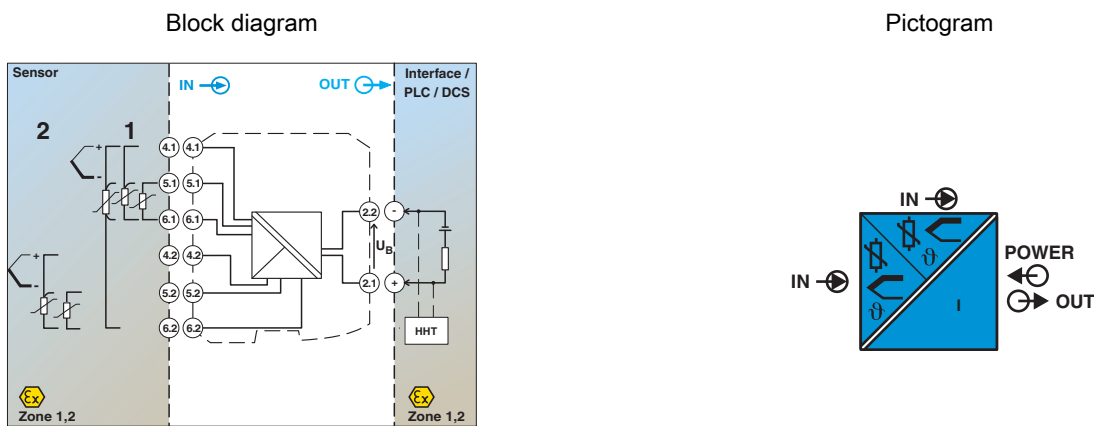| China RoHS	Environmentally friendly use period: unlimited = EFUP-e

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Environmental Product Compliance

	No hazardous substances above threshold values

Drawings

Block diagram

Pictogram

Classifications

eCl@ss

eCl@ss 10.0.1	27210129
eCl@ss 11.0	27210129
eCl@ss 9.0	27210129

ETIM

ETIM 6.0	EC002919
ETIM 7.0	EC002919

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / Functional Safety / DNV GL / Functional Safety / cULus Recognized

Ex Approvals

IECEx / FM approved / CSA / ATEX

Approval details

Temperature measuring transducer - MACX MCR-EX-TS-I-OLP-SP - 2908661

Approvals

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 198586

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 198586

Functional Safety	http://www.tuev-sued.de	Z10 17 09 29429 006

DNV GL		https://approvalfinder.dnvgl.com/	TAA00002GX

Functional Safety	http://www.tuev-sued.de	Z10 029429 0021

cULus Recognized	

Accessories

Accessories

Device marking

Plastic label - UC-EMLP (11X9) - 0819291

Plastic label, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 10

Plastic label - UC-EMLP (11X9) YE - 0822602

Plastic label, Sheet, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 10

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Accessories

Plastic label - UC-EMLP (11X9) SR - 0828094

Plastic label, Sheet, silver, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 10

Plastic label - US-EMLP (11X9) - 0828789

Plastic label, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 135

Plastic label - US-EMLP (11X9) YE - 0828871

Plastic label, Card, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 135

Plastic label - US-EMLP (11X9) SR - 0828872

Plastic label, Card, silver, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 135
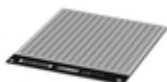
Device marker - LS-EMLP (11X9) WH - 0831678

Device marker, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 255

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Device marker - LS-EMLP (11X9) SR - 0831705

Device marker, Sheet, silver, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 255

Device marker - LS-EMLP (11X9) YE - 0831732

Device marker, Sheet, yellow, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 255

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white

Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue

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Accessories

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green

Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black

Labeled device marker

Plastic label - UC-EMLP (11X9) CUS - 0824547

Plastic label, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: adhesive, lettering field size: 11 x 9 mm

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Accessories

Plastic label - UC-EMLP (11X9) YE CUS - 0824548

Plastic label, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: adhesive, lettering field size: 11 x 9 mm

Plastic label - UC-EMLP (11X9) SR CUS - 0828098

Plastic label, can be ordered: by sheet, silver, labeled according to customer specifications, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 10

Programming adapter

Programming adapter - MCR-PAC-T-USB - 2309000

Programming adapter with USB and T port interface, 2.4 m for programming FA MCR-..., MCR-...-LP-..., and MCR-...-HT-... modules

Programming cable

Cable adapter - GW HART USB MODEM - 1003824

USB HART modem cable for communication between a PC and HART devices, cable length: 1m.

Test plug terminal block

Test plugs - MPS-MT - 0201744

Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray