

Type	Description (input / output)	Power supply	Price (EUR)
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Converters for RTD thermometers and thermocouples, mounting on DIN rail
Analog converters

PPN24	RTD, resistance / 0-20mA, 4-20mA, 0-10V	24V DC	80,5
PPN230	RTD, resistance / 0-20mA, 4-20mA, 0-10V	230V AC	93,8
PX24	RTD, Tc, resistance (isolated) / 4...20mA	via 4 to 20mA loop	85,1
PXN24	RTD, Tc, resistance (isolated) / 0-20mA, 4-20mA, 0-10V	24V DC	98,0
PXN230	RTD, Tc, resistance (isolated) / 0-20mA, 4-20mA, 0-10V	230V AC	102,6

Digital converters

PP210 / 212	RTD (programmable) / 4...20mA - double sensor model PP210	via 4 to 20mA loop	56,1 / 107,5
	Tc, (programmable) / 4...20mA- double sensor model PP210	via 4 to 20mA loop	65,6 / 123,7
PX310	Tc, voltage, current (isolated), (programmable) / 4...20mA	via 4 to 20mA loop	85,1

Digital converters - with RS485

PPL110	RTD (programmable) / output RS485 / MODBUS	8...28V DC	59,8
PPL112	double sensor model PL110 without galvanic separation / output RS485 / MODBUS	8...28V DC	78,1
PXL310	Tc, voltage, current (isolated), (programmable) / output RS485 / MODBUS	10...28V DC	93,0
PXL312	double sensor model PXL210, galvanic separation 2kV / output RS485 / MODBUS	10...28V DC	123,7

DC converters I, U

PX24	DC voltage, current (isolated) / 4...20mA	via 4 to 20mA loop	85,1
PXN24	DC voltage, current (isolated) / 0-20mA, 4-20mA, 0-10V	24V DC	93,8
PXN230	DC voltage, current (isolated) / 0-20mA, 4-20mA, 0-10V	230V AC	98,0

AC converters

PI121	mean current value / 0...20mA (4...20mA) 1; 2,5; 5A	- / via 4 to 20mA loop	61,9
PI121P	mean current value - split-core type / 0...20mA (4...20mA) 50; 75 ;100A	- / via 4 to 20mA loop	61,9
AC24	true r.m.s. current and voltage values / 4-20mA	via 4 to 20mA loop	93,8
ACN24	true r.m.s. current and voltage values / 0-20mA, 4-20mA, 0-10V	24V DC	98,0
ACN230	true r.m.s. current and voltage values / 0-20mA, 4-20mA, 0-10V	230V AC	102,6
P1S	single-phase grid watt power / 0-20mA, 4-20mA, 0-10V	24V DC or 230V AC	117,7
P2S	three-phase unbalanced grid watt power / 0-20mA, 4-20mA, 0-10V	24V DC or 230V AC	170,0
P3S	four-wire unbalanced grid watt power / 0-20mA, 4-20mA, 0-10V	24V DC or 230V AC	202,6
Q2S	three-phase unbalanced grid reactive power / 0-20mA, 4-20mA, 0-10V	24V DC or 230V AC	170,0
Q3S	four-wire unbalanced grid reactive power / 0-20mA, 4-20mA, 0-10V	24V DC or 230V AC	202,6
ACP	AC signal phase shift / 0-20mA, 4-20mA, 0-10V	24V DC or 230V AC	161,3
ACF	AC voltage frequency / 0-20mA, 4-20mA, 0-10V	24V DC or 230V AC	156,9

Isolating modules

GY200	1- chanel 0(4)-20mA / 0(4)-20mA with 1:1 energy transfer	no power supply	58,1
	2- chanel 0(4)-20mA / 0(4)-20mA with 1:1 energy transfer	no power supply	91,3
	3- chanel 0(4)-20mA / 0(4)-20mA with 1:1 energy transfer	no power supply	128,7
GX200	0(4)-20mA / 0(4)-20mA with 1:1 energy transfer	no power supply	65,4
GX 440	1- chanel 0-20mA, 4-20mA, 0-10V / 0-20mA, 4-20mA, 0-10V	input / output	59,0
	2- chanel 0(4)-20mA / 0(4)-20mA (current 1:1)	input / output	85,1
GXN24	0-20mA, 4-20mA, 0-10V / 0-20mA, 4-20mA, 0-10V	24V DC	93,8
GXN230	0-20mA, 4-20mA, 0-10V / 0-20mA, 4-20mA, 0-10V	230V AC	98,0
GO UNI	0-20mA, 4-20mA, 0-10V / 0-20mA, 4-20mA, 0-10V, user - programmable	230V AC	102,6

It can be produce converters with outputs 0-20mA, 4-20mA, 0-10V, 0-5mA etc. for all types with power supply 24V DC or 230V AC

Converters for RTD thermometers and thermocouples, head mounting

PP200	RTD (linearized, programmable) / 4...20mA	via 4 to 20mA loop	50,2
PPL100	RTD (linearized, programmable) / output RS485 / MODBUS	8..28V DC	50,2
PMA300	RTD (linearized, programmable) / 4...20mA head MAA	via 4 to 20mA loop	60,2

Resistance thermometers box-mounted

PP100-BOX	RTD (linearized, thermometer head mounted) / 4...20mA	via 4 to 20mA loop	64,8
PQ100-BOX	Tc (cold junction compensation, no linearization, therm. head mounted) / 4...20mA	via 4 to 20mA loop	75,6
PP200-BOX	RTD (linearized, programmable) / 4...20mA	via 4 to 20mA loop	64,8
PPL100-BOX	RTD (linearized, programmable) / output RS485 / MODBUS	8..28V DC	64,8

Resistance thermometers cable-mounted		Power supply	Price (EUR)
PT30 200°C	cable-mounted, surface contact design Ø6x50mm, cable 1m	-	18,5
PT30 350°C	cable-mounted, surface contact design Ø6x50mm, cable 1m	-	22,8
PT31	model PT30 with fastening bolts M12, cable 1m	-	22,0
PT31K	model PT30 with fastening bolts G1/2 (M20x1,5) and connector	-	24,1
PT33	flat, for electric machine stator groove mounting	-	13,1
PT34	to be inserted into electric machine winding	-	10,3
PT35	bearing thermometer, Ø8mm, adjustable submerged length	-	38,5
PT36	insulating material Ø3,5mm, adjustable submerged length	-	10,3
PT37	cable-mounted thermometer, Ø4mmx50mm 1m 200°C/400°C	-	17,6
PT38	cable-mounted, surface contact design, with a hole, cable 1m	-	20,8

Resistance thermometers open space mounted			
PT10 / PTP10	outdoor application, IP65, / output 4..20mA	- / via 4 to 20mA loop	40,5 / 75,4
PTP10K	outdoor application, IP65, output 4..20mA, cable 1m	via 4 to 20mA loop	77,2
PT20	interior design, IP30	-	9,1
NIP20	interior design, converter 0..+50°C / 0-5V	12-34VDC	24,6
DSL10	outdoor application, -20...+85°C / output RS485	7..29VDC	64,0
DSL12	outdoor application -double sensor model, DSL10 (psychrometr) / output RS485	7..29VDC	74,7

Resistance thermometers tube-mounting (without / with converter 4-20mA)			
PT05 / PTP05	pipeline mounted, IP65, output 4..20mA	- / via 4 to 20mA loop	31,5 / 66,4

Resistance thermometers with head (without / with converter 4-20mA)			
PT40 / PTP40	for ventilation systems, low time constant, 4-20mA, 400mm	- / via 4 to 20mA loop	35,7 72,8
PT50 / PTP50	for liquids, Ø8mm, for example: 160/Y	- / via 4 to 20mA loop	36,2 / 73,2
	for liquids, Ø8mm, for example: 240/Y	- / via 4 to 20mA loop	36,6 / 73,7
	for liquids, Ø8mm, for example: 320/Y	- / via 4 to 20mA loop	37,1 / 74,1
PT50J/PTP50J	for liquids, with a bulb Ø10,2mm, for example: 160/80	- / via 4 to 20mA loop	41,4 / 79,3
	for liquids, with a bulb Ø10,2mm, for example: 240/80	- / via 4 to 20mA loop	42,1 / 80,4
	for liquids, with a bulb Ø10,2mm, for example: 240/160	- / via 4 to 20mA loop	42,9 / 81,1
	for liquids, with a bulb Ø10,2mm, for example: 320/160	- / via 4 to 20mA loop	43,6 / 81,5
PT55 / PTP55	for liquids, Ø6mm, for example: 160/Y	- / via 4 to 20mA loop	36,2 / 73,2
PM55 / PMP55	for liquids, Ø6mm, for example: 160/80, head MAA	- / via 4 to 20mA loop	36,2 / 82,4

Accrual of the price:	
inserting of Pt100/A	1,6
inserting of 2xPt100/A	5,0
each additional 10 cm of stem (X) / bulb (Y)	+1,1 / +1,5
each additional 1 m of cable for MCBE-AFEP 4x0,22 pro PT30, 31, 35, 38	1,8
certificate of calibration (3 point – for thermometers)	od 12,5
Montage of converter into head of providing thermometer (other producer) including setting	7,0

- It can be use programmable converters PP200 or PPL100 with RS485 output for thermometers with head!
(Suitable for types PT40, PT50, PT50J, PT55, PT10, PT05...). The price is the same as a standard design with PP200.
- Temperary we can embed termocouple „J“ or „K“! Price depend on the version.

Types of cable for thermometers PT30, PT31, 35, 38 and for thermocouples:

Cable	Type	Wire insulation	Temperature	d	Price / 1m
Cables for resistance sensors	cable MC-AFEP 2x0,22	teflon / silicone	200°C	3,6mm	1,2
	cable MCBE-AFEP 2x0,15	teflon / metal shield / silicone	200°C	3,0mm	1,8
	cable MCBE-AFEP 3x0,15	teflon / metal shield / silicone	200°C	3,1mm	2,1
	cable MCBE-AFEP 4x0,22	teflon / metal shield / silicone	200°C	4,5mm	1,8
	cable MCBE-AFEP 6x0,22	teflon / metal shield / silicone	200°C	5,2mm	2,6
	cable BIMV-CNTEVS 2x0,22	fibreglass / metal shield	350°C	4,0mm	4,5
	cable BIMV-CNTEVS 3x0,22	fibreglass / metal shield	350°C	3,6mm	5,0
	cable BIMV-CNTEVS 4x0,22	fibreglass / metal shield	350°C	4,3mm	5,4

The standing charge PT30, PT31, 35, 38 include 1m cable MCBE-AFEP 4x0,22					
Cables for termocouple sensors	thermocable K24-3-507	teflon/teflon	205°C	2,7mm	3,0
	thermocable J24-3-507	teflon/teflon	205°C	2,7mm	2,5
	thermocable K20-3-S-304	fibreglass / metal shield	480°C	3,2mm	5,2
	thermocable J20-3-S-304	fibreglass / metal shield	480°C	3,2mm	4,4

Limit value sensors		Power supply	Price (EUR)
TS10 / TS10K	two-state temperature controller with adjustable point / 1x relay	24V DC / 230V AC	82,8 / 84,7
TS10 DIN	two-state controler of voltage, current and temperature (Pt1000) with adjust. point / 1x relay	24V DC / 230V AC	62,3
DIGIREG 02	limit value watcher, with adjustable levels and display / 2x relay	24V DC / 230V AC	124,6 132,9

Power supplies			
NZ124	power supply 24V DC / 22mA	230V AC	50,2
NZ224	power supply 24V DC / 200mA	230V AC	59,0

Software, programming adapters		Power supply	Price (EUR)
PK-USB	programming adapter USB for PP200, PP210	USB port	40,7
PK-USB/485	communications and programming adapter USB / RS485 pro PPL..., DSL...	USB port	40,7
STUDIO 2007	software for adjusting PP200, PP210, PPL100, PPL110, DSL110, DSL112	-	free

TRADING CONDITIONS:

- The prices are without VAT. Price and delivery time are state for piece purchase EX-WORK.
- Standardn delivery time: by 14 days
- Discounts:
 - from 20 pcs. of the same model: -5%
 - from 50 pcs . of the same model: -10%
- Pay up:
 - to 24 hours +20%
 - to 96 hours +10%

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