






powerIO® - Produkte

	Typ	Art. -Nr.	Euro/St.
 <p>powerIO®-Box Decentralized automation box. 230V power supply, ethernet communication, gateway function 2 x 230V outputs up to 6A 4 x M12 coupling A-coded for RS485 Connections incl. 24V/2A DC Power supply (Port 1 to 4) 1 x optional slot (Port5) 1 x M12 service interface for commissioning with the App Incl. shield clamp, ethernet, < microfuse (4A).</p>	T1.B100	100101	1500,00
 <p>CODESYS® Runtime License Extension for powerIO-Box to USB dongle</p>	T1.B100-CDS	100102	100,00
 <p>powerIO®-Line Hybrid cable for connecting the powerIO®-Boxes. Power: 3 x 4.00 mm² Data: 2 x (2 x 0.34 mm²), shielded Yard ware, minimum order quantity 10m</p>	T1.L100	100104	11,00/m
 <p>powerIO®- Start Unit Switch, allows to connect up to 3x powerIO®-Lines and 2x RJ45 Ethernet cables for example controller, touch panel or network.</p>	T1.S110	100170	260,00
 <p>powerIO®-Bluetooth Dongle For connecting to the "service" port of the powerIO®-Box. Communication with powerIO®-App for commissioning/service of the sensors/actuators.</p>	T1.D100	100106	198,00

**powerIO®-Rio 1**

T1.R100

100107

349,00

Extension box with

- 6 x digital input
- 1 x analog input 0-10 V
- 1 x analog input passive
- 3 x digital outputs pot. free (I_{max} 16A)
- 4 x digital outputs 24V/0,5A
- 1 x analog outputs 0-10V

Outputs each with manual override (switch/pot). Addressable via rotary switch. Connection via Modbus RTU.

**powerIO®-Rio 4DI**

T1.R100-4DI

100186

122,00

Digital input module for the connection of messages (24V)

- 4x digital inputs with counter function
- Power supply

24V AC/DC

Connection via Modbus RTU.

**powerIO®-Rio 8DI**

T1.R100-8DI

100187

130,00

Digital input module for the connection of messages (24V)

- 8x digital inputs with counting function
- Power supply

24V AC/DC

Connection via Modbus RTU.

**powerIO®-BSK Modul ECO**

T1.BSK1-AMP-24-ECO

100174

102,00

Fire damper module for 1x 24V or 230V fire damper, without galvanic isolation (ECO)

- 2 digital inputs + 1 digital output relay 230V/5A
- BSK pluggable via AMP socket
- Power supply

24V AC/DC

- Casing IP54 (110x110x66mm)

Connection via Modbus RTU.

**powerIO®-BSK Modul ECO**

T1.BSK1-24-ECO

100175

102,00

Fire damper module for 1x 24V or 230V fire damper, without galvanic isolation (ECO)

- 2 digital inputs + 1 digital output relay 230V/5A
- power supply

24V AC/DC

- Casing IP67 (110x110x66mm)

Connection via Modbus RTU.



powerIO®-BSK Modul
 Fire damper module for 2x
 24V or 230V fire damper,
 with galvanic isolation
 - 4 digital inputs +
 2 digital outputs relay 230V/16A
 - BSK pluggable via AMP socket
 - Power supply
 24V AC/DC
 - Casing IP54 (160x140x81mm)
 Connection via Modbus RTU.

T1.BSK2-AMP-24 100176 144,00



powerIO®-BSK Modul
 Fire damper module for 2x
 24V or 230V fire damper,
 with galvanic isolation
 - 4 digital inputs +
 2 digital outputs relay 230V/16A
 - power supply
 24V AC/DC
 - Casing IP67 (160x140x81mm)
 Connection via Modbus RTU.

T1.BSK2-24 100177 144,00



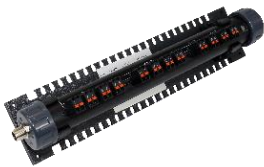
powerIO®-BSK Modul
 Fire damper module for 2x
 230V fire damper,
 with galvanic isolation
 - 4 digital inputs +
 2 digital outputs relay 230V/16A
 - BSK pluggable via AMP socket
 - Power supply 230V AC
 - Casing IP54 (160x140x81mm)
 Connection via Modbus RTU.

T1.BSK2-AMP-230 100182 152,00



powerIO®-BSK Modul
 Fire damper module for 2x
 230V fire damper,
 with galvanic isolation
 - 4 digital inputs +
 2 digital outputs relay 230V/16A
 - power supply 230V AC
 - Housing IP67 (160x140x81mm)
 Connection via Modbus RTU.

T1.BSK2-230 100183 152,00



powerIO®-HK-Verteiler
 Suitable for installation on manifolds of heating/cooling/BKT.
 Input for Modbus RTU via M12 connector 5-pin with A-coding.
 - 8x digital output (e.g. thermal drives)
 - 2x digital input
 - 2x analog input passive PT1000

T1.R300

100169

349,00



powerIO®-Booster
 For power amplification on 24V side
 Input U=230V AC
 Output U=24V DC, I=2A
 2 pcs. M12 connectors with 24V DC outputs each and Modbus RTU.

T1.R350

100144

199,00



powerIO®-Hub
 Distributor for hybrid line powerIO-Line.
 Input terminals for power and Ethernet
 CAT6 hybrid cable with shield clamps
 Output terminals for
 2 pcs. Power and Ethernet CAT 6 Hybrid cable with shield clamps
 HUB functionality for Ethernet CAT6 distribution via connection to expansion board "Ethernet" at powerIO® box. Can also be used to extend the powerIO®-Line.

T1.H100

100108

170,00

powerIO®-Y

T1.Yxxx

Enables the connection of 2 x RS485 participants with 24V power supply (LED). Is connected to the powerIO® box on port 1 to 4. Connection terminals for cross sections up to 1.00 mm² or pluggable via M12.



2 x Cable gland

T1.Y100

100109

25,00



Cable gland, 1 x M12 socket

T1.Y200

100110

39,00



2 x M12 socket

T1.Y300

100111

53,00

**Expansion board: Ethernet**

T1.C100-ETH

100112

198,00

M12: 4-pin D-coded

Allows the connection of an M12 Ethernet cable. Integration of other IP participant with up to 100 Mbit/s.

**Expansion board: RS485**

T1.C100-RS485-24

100142

198,00

M12: 5-pole A-coded. Extended Port 5 by another RS485 COM port. With 24V on M12 pins as output voltage.

**Expansion board: RS232**

T1.C100-RS232-24

100143

260,00

M12: 5-pole A-coded. Extended Port 5 around a RS232 COM port. With 24V on M12 pins as output voltage.

powerIO® - Zubehör

	Typ	Art. -Nr.	Euro/St.	
	RJ45 plug <-> M12 D-coded 4-pin plug Ethernet cable for direct connection to powerIO® expansion board "Ethernet".	T1.Z102	100114	72,00
	M12 A-coded 5-pin plug <-> open end Standard installation cable for connecting sensors/actuators to the powerIO®-Box. 5 x 0.25 mm ² shielded.			
	Cable length 2 m	T1.Z104	100117	16,00
	Cable length 5 m	T1.Z105	100118	18,50
	Cable length 10 m	T1.Z106	100119	25,00
	M12 A-coded 5-pin plug <-> M12 A-coded 5-pin socket Standard installation cable for connecting sensors/actuators to the powerIO®-Box. 5 x 0.25 mm ² shielded.		100120	
	Cable length 2 m	T1.Z107	100121	31,00
	Cable length 5 m	T1.Z108	100122	35,00
	Installation line Installation line by the meter. 5 x 0.25 mm ² shielded. Corresponds to the same cable type/color code as M12 cable. Minimum order quantity 10m.	T1.Z109	100123	1,60/m
	M12 A-coded 5-pole Y-distributor Plug <-> 2x socket Allows two M12 plugs to be connected to one socket. Bus and voltage bridged. Can be plugged directly into the powerIO box to connect two sensors/actuators.	T1.Z122	100166	57,00
	M12 A-coded 5-pin Y-adapter M12 5-pin A-coded socket/plug to plug	T1.Z110	100165	40,00
	Coupling M12 5-pin A-coded For self-assembly.	T1.Z111	100125	11,00



Plug M12 5-pin A-coded
For self-assembly.

T1.Z112

100126

10,50



Flange coupling M12 5-pin A-coded, front wall mounting

T1.Z113

100127

15,00



Flange plug M12 5-pin A-coded, front wall mounting

T1.Z114

100128

16,00



Flange coupling M12 5-pin A-coded, rear wall mounting

T1.Z115

100129

15,00



Flange plug M12 5-pin A-coded, rear wall mounting

T1.Z116

100130

15,00



M12 protective cap
Protection cap for unused M12 sockets

T1.Z117

100131

3,00



powerIO®-line jumper cable
Allows a powerIO® box to be bridged to continue Ethernet communication on the network.

T1.Z118

100132

8,00



Shield clamp
For shield connection of the powerIO®-Line to the powerIO®-Box. Included in the scope of delivery of the powerIO®-Box.

T1.Z100

100134

7,00



Ethernet connector
Ethernet connector for the powerIO®-Line on the powerIO®-Box or powerIO®-Start Unit. The Ethernet connectors are included in the scope of delivery of the powerIO®-Box.

T1.Z101

100135

9,00

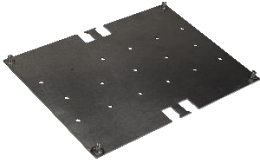


Installation plate powerIO®-Box T1
Aluminium installation plate for the T1 series. Allows easy preassembly for electrical installation. 4 threaded bolts for subsequent screwing on of the powerIO®-Box. With cut-out for mounting on pipes using lashing straps.

T1.Z119

100136

52,00



Installation plate powerIO®-Box T1 with magnets
Aluminium installation plate for the T1 series. Allows easy preassembly for electrical installation. 4 threaded bolts for subsequent screwing on of the powerIO®-Box. With premounted magnets for mounting for example on ventilation ducts.

T1.Z125

100171

73,00



powerIO® Demo Case
The demo case clearly presents the powerIO® system and enables first tests on site. Case contains a powerIO® box, M12 cable, Modbus sensor, Modbus actuator.

T1.Z120

100137

Leihgabe



powerIO® - Starter Set*
This starter set consists of:
1 x powerIO® box (T1.B100)
1 x Start Unit (T1.S100)
20m powerIO®-Line (T1.L100)
5m installation cable (T1.Z109)
1 x M12 cable 2m (T1.Z104)
1 x M12 cable 5m (T1.Z105)
1 x M12 cable 10m (T1.Z106)
1 x M12 cable 2m (T1.Z107)
1 x M12 flange plug (T1.Z114)
1 x powerIO®-Y distributor (T1.Y200)
1 x powerIO® Bluetooth Dongle (T1.D100)

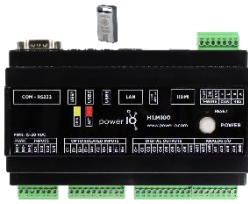
T1.Z121

100138

1500,00

* Purchase of the starter set only once per customer possible. Product not discountable.

HVAC-Automation Produkt

**IoT Gateway and CODESYS**

H1.M100

100145

395,00

Control for HVAC automation

IoT gateway and PLC controller (CODESYS optional) with 4x1.2 GHz processor and 8GB memory. 24V power supply, 12DI, 8DO, 4AI, 2AO, RS485 and RS232, LAN, 3xUSB. DIN rail mounting.

Alle Preise verstehen sich ab Werk, exklusive Verpackung und Versand, zuzüglich der geltenden MwSt. Irrtümer und Änderungen vorbehalten.

Mit dieser Preisliste verlieren alle bisherigen Preise ihre Gültigkeit!