

P2M Network Nodes

P2M communication module attaches directly to the end plate. It offers a compact and low cost network solution.

Features

- Small, compact product design
- IO-Link Class A & Class B nodes
- Broad protocol offering
- Built-in panel grounding
- CE certification

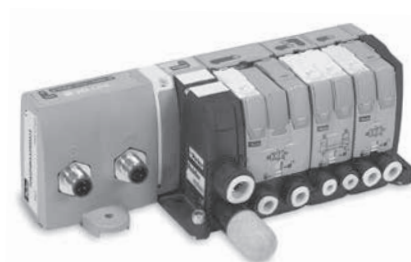
 **IO-Link**

ETHERNET
POWERLINK

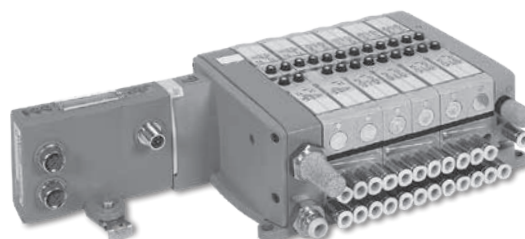
PROFI
INDUSTRIAL ETHERNET
NET

EtherCAT

EtherNet/IP™ CC-Link IE Modbus



P2M2HBVL12400A13
 (Class A IO-Link)



P2M2HBVE12400
 (EtherNet/IP)

Industrial Ethernet Protocol	Maximum Addresses †	Part number
EtherNet/IP (Safe Power Capable)	24 †	P2M2HBVE12400
PROFINET (Safe Power Capable)	24 †	P2M2HBVN12400
EtherCAT (Safe Power Capable)	24 †	P2M2HBVT12400
Modbus/TCP (Safe Power Capable)	24 †	P2M2HBVM12400
PowerLink (Safe Power Capable)	24 †	P2M2HBVW12400
CC-Link IE (Safe Power Capable)	24 †	P2M2HBVK12400

	IO-Link class	 IO-Link	Aux. power	Aux. power pinout	Maximum addresses †	Part number	
						Standard	Safe power capable *
	Class A	3 Pins	3 Pins	1 & 3	24 †	P2M2HBVL12400A13	P2M2HBVL12400A13-SPC
		3 Pins	3 Pins	4 & 3	24 †	P2M2HBVL12400A43	P2M2HBVL12400A43-SPC
		3 Pins	5 Pins	4 & 2	24 †	P2M2HBVL12400A42	P2M2HBVL12400A42-SPC
	Class B	5 Pins		2 & 5	24 †	P2M2HBVL12400B25	P2M2HBVL12400B25-SPC

* Safe Power Capable (-SPC) version is suitable for connection to an OSSD (test pulsed) SAFE output source.

† If using with Moduflex valves, maximum solenoid addresses limit is 19.

Further details: www.parker.com/pde/P2M_IOL

"V" Series Valve Island P2M head module for IO-Link

Electrical Module for 24 outputs
(The last 5 outputs of this 24 DO module can not be used with Moduflex Valve)



M12 A coded Connector connection

	Description	IO-Link class	IO-Link	Aux. power	Aux. power pinout	Weight (g)	Part number	
							Standard	Safe power capable
 Class A P2M IO-Link communication module		Class A	3 Pin's	3 Pin's	1 & 3	160	P2M2HBVL12400A13	P2M2HBVL12400A13-SPC
			3 Pin's	3 Pin's	4 & 3	160	P2M2HBVL12400A43	P2M2HBVL12400A43-SPC
			3 Pin's	5 Pin's	4 & 2	160	P2M2HBVL12400A42	P2M2HBVL12400A42-SPC
 Class B		Class B	5 Pin's		2 & 5	140	P2M2HBVL12400B25	P2M2HBVL12400B25-SPC
Power & communication cable							RKC 4.5T*-RSC 4.5T/S1587	

IODD file can be downloaded from IODD Finder or the Moduflex web site:
<https://ioddfinder.io-link.com> or www.parker.com/pde/io-link

Where * = 1, 2, 3, 4, 5, 10, 20 meter standard lengths

P2M Class A Module with Independent Auxiliary Power Supply



The P2M  IO-Link Class A module can handle a Moduflex valve manifold having up to 19 solenoid outputs, or H Series Micro / ISO up to 24 solenoid outputs.

Thanks to its 2 x M12 A coded male connectors, the P2M node can be connected to any IO-Link Class A master and separately receive its auxiliary power supply for valves from an independent source.

The P2M  IO-Link Class A module exists in 3 versions with the auxiliary power M12 connector pin out adapted to any sourcing through a standard M12 cable:

- P2M2HBVL12400A13 version: 24VDC / 0VDC on pins 1 & 3 – Standard version
- P2M2HBVL12400A43 version: 24VDC / 0VDC on pins 4 & 3 – Compatible with Siemens wiring
- P2M2HBVL12400A42 version: 24VDC / 0VDC on pins 4 & 2 – Compatible with Rockwell wiring and Turck wiring

P2M Class B module



The P2M  IO-Link Class B module can handle a Moduflex valve manifold having up to 19 solenoid outputs, or H Series Micro / ISO up to 24 solenoid outputs.

Thanks to its single M12 A coded male connectors, P2M node can be connected to any IO-Link Class B master receiving its auxiliary power supply for valves on pins 2 & 5 from the only cable simplifying the connection.

- P2M2HBVL12400B25 version: 24VDC / 0VDC on pins 2 & 5

Diagnostic



The P2M  IO-Link module offers a local diagnostic through 4 LED's located on the visible top side, showing:

- IO-Link com status
- Module error
- Output error
- Auxiliary power

Additional useful diagnostic information can be read by the PLC through the network simplifying diagnostic and allowing predictive maintenance (all details in the user manual).

Auxiliary power for safe supply

The P2M  IO-Link module is compatible with a SAFE power source for valve control.

For more details, refer to next page.

Model No.	Section / Page No.	Model No.	Section / Page No.	Model No.	Section / Page No.
HAEVXLG0G9A.....	9	HB6VXBH023A.....	8	P2FCA445.....	61
HAEVXLG023A.....	9	HB6VXLG0G9A.....	8	P2FCA449.....	61
HAEVXLH0G9A.....	9	HB6VXLG023A.....	8	P2FCA453.....	61
HAEVXLH023A.....	9	HB6VXLH0G9A.....	8	P2FCA457.....	61
HAEWXBG2G9000FA.....	28	HB6VXLH023A.....	8	P2M2HBVA10800.....	91
HAEWXBH2G9000FA.....	28	HB6WXBG2G9000FA.....	27	P2M2HBVA10808A.....	91
HAEWXLG2G9000FA.....	28	HB6WXBH2G9000FA.....	27	P2M2HBVA10808B.....	91
HAEWXLH2G9000FA.....	28	HB6WXLG2G9000FA.....	27	P2M2HBVA20600.....	91
HB1VXBG0G9A.....	8	HB6WXLH2G9000FA.....	27	P2M2HBVA20608A.....	91
HB1VXBG023A.....	8	HB7VXBG0G9A.....	8	P2M2HBVA20608B.....	91
HB1VXBH0G9A.....	8	HB7VXBG023A.....	8	P2M2HBVC21600.....	85
HB1VXBH023A.....	8	HB7VXBH0G9A.....	8	P2M2HBVD21600.....	85
HB1VXLG0G9A.....	8	HB7VXBH023A.....	8	P2M2HBVK12400.....	85
HB1VXLG023A.....	8	HB7VXLG0G9A.....	8	P2M2HBVL12400A13.....	85, 88
HB1VXLH0G9A.....	8	HB7VXLG023A.....	8	P2M2HBVL12400A13-SPC.....	85, 88
HB1VXLH023A.....	8	HB7VXLH0G9A.....	8	P2M2HBVL12400A42.....	85, 88
HB1WXBG2G9000FA.....	27	HB7VXLH023A.....	8	P2M2HBVL12400A42-SPC.....	85, 88
HB1WXBH2G9000FA.....	27	HB7WXBG2G9000FA.....	27	P2M2HBVL12400A43.....	85, 88
HB1WXLG2G9000FA.....	27	HB7WXBH2G9000FA.....	27	P2M2HBVL12400A43-SPC.....	85, 88
HB1WXLH2G9000FA.....	27	HB7WXLG2G9000FA.....	27	P2M2HBVL12400B25.....	85, 88
HB2VXBG0G9A.....	8	HB7WXLH2G9000FA.....	27	P2M2HBVL12400B25-SPC.....	85, 88
HB2VXBG023A.....	8	HBEVXBG0G9A.....	8	P2M2HBVN12400.....	85
HB2VXBH0G9A.....	8	HBEVXBG023A.....	8	P2M2HBVP21600.....	85
HB2VXBH023A.....	8	HBEVXBH0G9A.....	8	P2M2HBVS11600.....	85
HB2VXLG0G9A.....	8	HBEVXBH023A.....	8	P8BPA00MA.....	91, 140
HB2VXLG023A.....	8	HBEVXLG0G9A.....	8	P8BPA00MB.....	91, 139
HB2VXLH0G9A.....	8	HBEVXLG023A.....	8	P8CS1205AA.....	91
HB2VXLH023A.....	8	HBEVXLH0G9A.....	8	P8LMH25M3A.....	56, 139
HB2WXBG2G9000FA.....	27	HBEVXLH023A.....	8	P8LS12JACK.....	91
HB2WXBH2G9000FA.....	27	HBEWXBG2G9000FA.....	27	PKG 3M-4/S90.....	138
HB2WXLG2G9000FA.....	27	HBEWXBH2G9000FA.....	27	PKG 3M-* -PSG 3M/S90.....	138
HB2WXLH2G9000FA.....	27	HBEWXLG2G9000FA.....	27	PL02-01-70.....	37
HB5VXBG0G9A.....	8	HBEWXLH2G9000FA.....	27	PL02-01-80.....	37
HB5VXBG023A.....	8	HBNVXBG0G9A.....	8	PS40D3DP.....	61
HB5VXBH0G9A.....	8	HBNVXBG023A.....	8	PS41D3DP.....	61
HB5VXBH023A.....	8	HBNVXBH0G9A.....	8	PS41D5DP.....	61
HB5VXLG0G9A.....	8	HBNVXBH023A.....	8	PS42D3DP.....	61
HB5VXLG023A.....	8	HBNWXBG2G9000FA.....	27	PS42D5DP.....	61
HB5VXLH0G9A.....	8	HBNWXBH2G9000FA.....	27	PS2028BP.....	58
HB5VXLH023A.....	8	HBPVXBG0G9A.....	8	PS2028JCP.....	58
HB5WXBG2G9000FA.....	27	HBPVXBG023A.....	8	PS4001CP.....	61
HB5WXBH2G9000FA.....	27	HBPVXBH0G9A.....	8	PS4002CP.....	61
HB5WXLG2G9000FA.....	27	HBPVXBH023A.....	8	PS4003CP.....	61
HB5WXLH2G9000FA.....	27	HBPWXBG2G9000FA.....	27	PS4004CP.....	61
HB6VXBG0G9A.....	8	HBPWXBH2G9000FA.....	27	PS4005DP.....	61
HB6VXBG023A.....	8	HBQWXBG2G9000FA.....	27	PS4006DP.....	61
HB6VXBH0G9A.....	8	P2FCA442.....	61	PS4007P.....	61