P2M IO-Link Node

Smart Control of Pneumatic Valve Manifolds

IO-Link communication is quickly expanding within the Factory Automation market space as a low cost method of connecting I/O "on the network". The **P2M IO-Link** node brings this exciting technology to Parker's key valve manifold ranges. Process data is easily accessible and can be monitored by the PLC to help reduce or even prevent downtime.

Superior Value

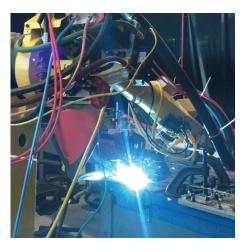
This product reduces overall machine cost via a low cost connection to a network while also providing diagnostic information. The **P2M IO-Link** communicates diagnostic information through the PLC, and also has local LED status lights to help diagnose a problem.

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



Diagnostic LEDs

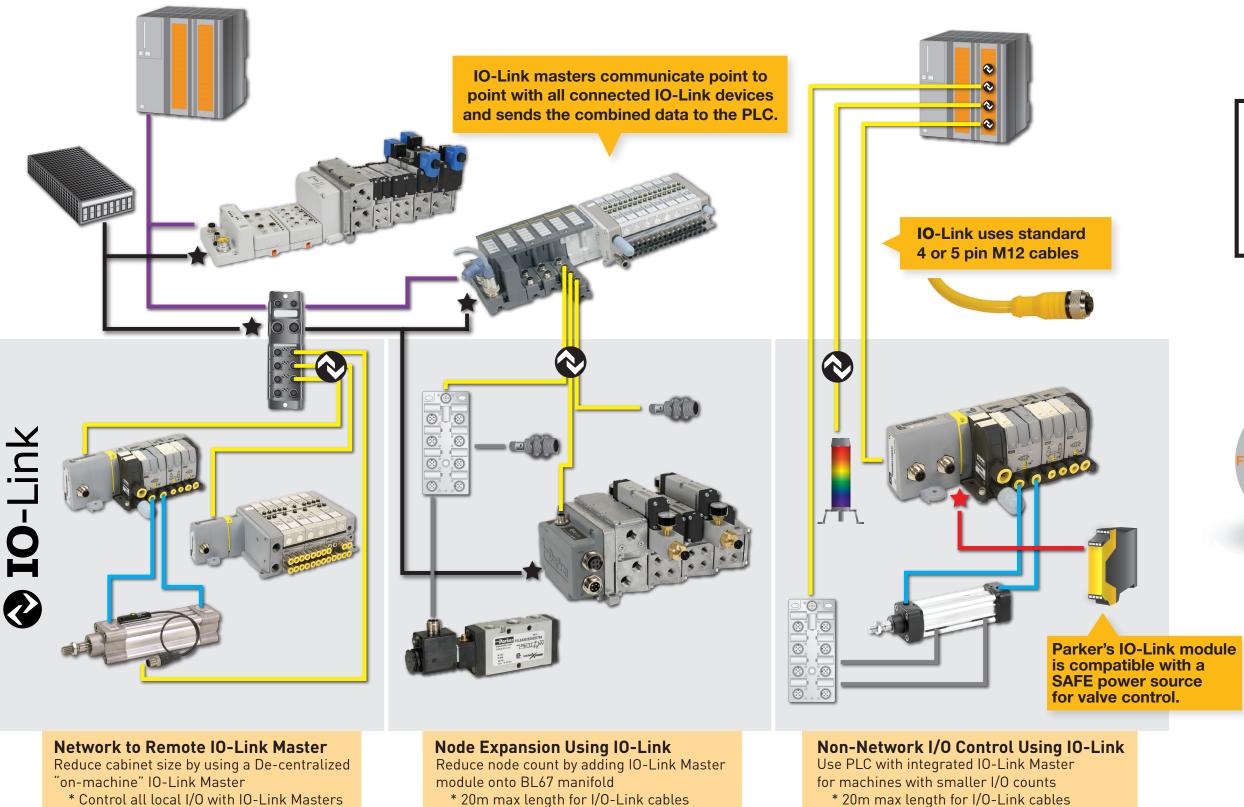




Addition of the set of

Product Features:

- Certified according to latest IO-Link standard: V1.1.2
- Industry standard pin-out configurations for easy connection.
- Connection to valve manifolds with Cv from .18 to 6.0
- Class B module offers one M12 connector for both communications and auxiliary power for easy connection to Class B IO-Link Masters.
- Class A module offers one M12 for connection to Class A IO-Link Master and one M12 for easy connection to auxiliary power for solenoids.
- Easy access to Prognostic & Diagnostic data.
- Easy connection to SAFE power source. P2M standard version suitable for PP/PM Safe output and P2M -SPC version suitable for OSSD / test pulsed Safe Output.



- Discrete I/O
- "Smart" I/0
- P2M IO-Link Class B & CPS pictured see www.parker.com/pdn/CPS
- * 20m max length for I/O-Link cables
- * Control all "smart I/O" on 1 node
- * Reduce cost of secondary valve manifold • P2H IO-Link Class A pictured
 - see www.parker.com/pdn/P2H_IOL

THIS IS SAVINGS

Fewer Network Nodes Easy Expandability

* Control all local I/O with IO Link

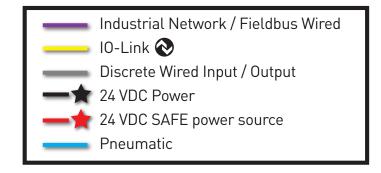
• P2M IO-Link Class A pictured

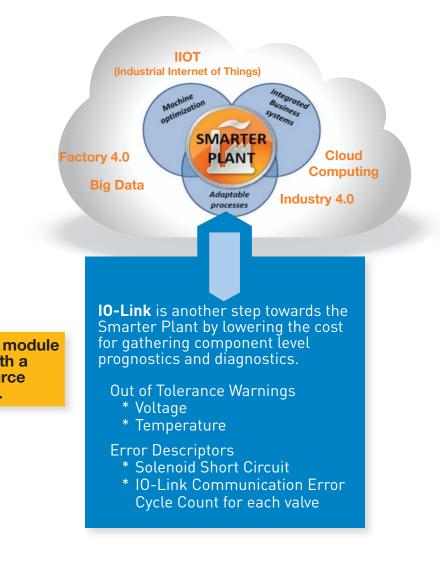
• Discrete I/O • "Smart" I/O

THIS IS VALUE



Faster Install than Discrete Wire Standard IP67 M12 Cable







Easy Access Diagnostics Prognostics to Prevent Downtime

P2M IO-Link Node Connection Types and Power:

Connection to Class A Master:

Use a P2M Class A Module with (2) M12 connectors for IO-Link and auxiliary power up to 4A for valve power (max 2A for -SPC version).

Connection to Class B Master:

Use a P2M Class B Module with (1) M12 connector for IO-Link and valve power up to limit of Class B Master output.

Use Class A module with auxiliary power if the Class B Master cannot provide enough power.

	2 4V	\odot	(24V)			
M12 Pins	Class B	Class A	Class A			
	5 pins	3 pins	3 P	5 Pins		
	P2MB	P2MA	P2MA13	P2MA43	P2mA42	
1	L+	L+	Aux +	Not used	Not used	
2	Aux +	-	-	-	Aux -	
3	L-	L-	Aux -	Aux -	Not used	
4	C/Q	C/Q	Not used	Aux +	Aux +	
5	Aux -	-	-	-	Not used	
5	Aux -	-	-	-	Not used	

Class A and B units are compatible with SAFE power source for valve control. Consult website for additional information at www.parker.com/pdn/P2M_IOL

IO-Link	\diamond	Aux	Aux. Power	Order Code	
Class	IO-Link	Power	Pinout	Standard	Safe Power Capable *
Class A	3 Pins	3 Pins	1&3	P2M2HBVL12400A13	P2M2HBVL12400A13-SPC
	3 Pins	3 Pins	4 & 3	P2M2HBVL12400A43	P2M2HBVL12400A43-SPC
	3 Pins	5 Pins	4 & 2	P2M2HBVL12400A42	P2M2HBVL12400A42-SPC
Class B	5 Pins		2 & 5	P2M2HBVL12400B25	P2M2HBVL12400B25-SPC

* Safe Power Capable (-SPC) version is suitable for connection to an OSSD (test pulsed) SAFE output source. Further details: www.parker.com/pdn/P2M_IOL

See offer of sale: www.parker.com/offerofsale

Valve Series

Check the total maximum solenoid current consumption against the limit of the power supply and P2M module (standard version 4A, SPC version 2A).



Moduflex Valve Cv: .18 - 0.80 19 Solenoids 42mA per Sol.



H Micro Cv: 0.35 24 Solenoids 42mA per Sol.



H ISO 15407-2 & 5599-2 Cv: 0.55 - 6.0 24 Solenoids 42mA (15407) / 133mA (5599) per Sol.

© 2019 Parker Hannifin Corporation



Parker Hannifin Corporation **Pneumatic Division** 8676 E. M89 Richland, MI 49083 USA Tel: 269 629 5000 Applications Engineering: pdnapps@parker.com Customer Support: pdncustsvc@parker.com Bulletin 0600-B92 07/2019