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PM400 Power Supply Specifications

What's Included?

Each PM400 comes with the following:

- Two 24 VDC connectors
- Two AS-I connectors (only needed for AS-I communication method)
- Ribbon cable (only needed for Discrete I/O communication method)
- Module power connector
- 9-conductor module power cable

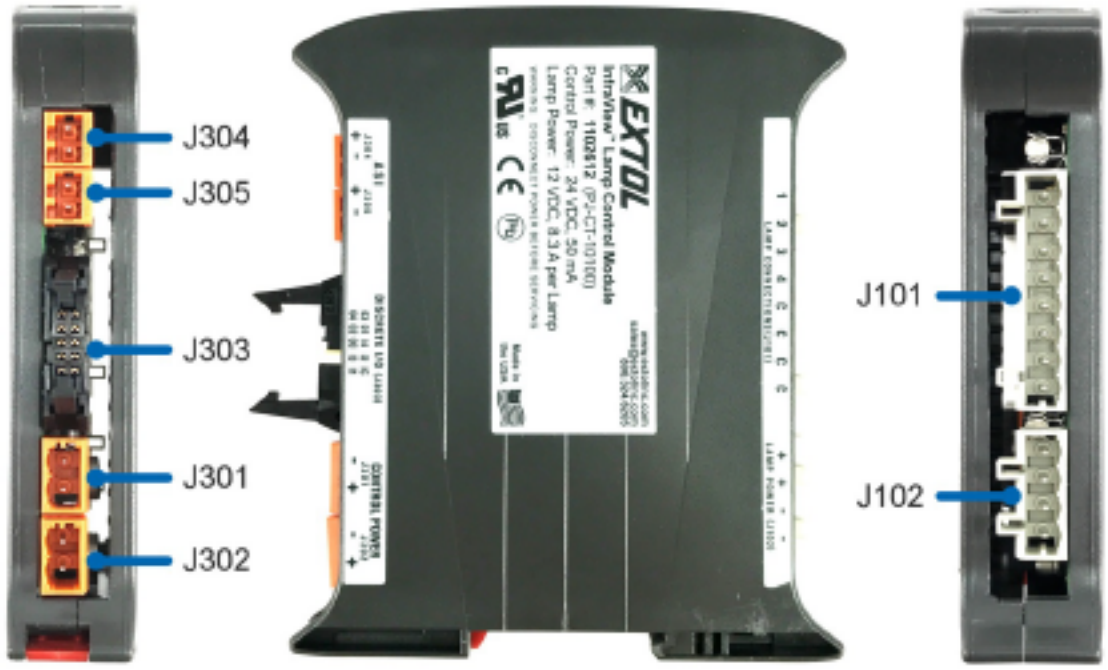
Power Requirements

Terminal	Description
L	115 V Hot / 230 V LI

Terminal	Description
N	115 V Neutral / 230 V L2
⏚ (Ground)	Protective Earth
(J301 or J302) -	DC COM (0 V)
(J301 or J302) +	+24 VDC

Power	Description
Lamp Power	92-264 VAC single phase, 5.8-2.1 A, 47 - 63 Hz
Control Power	24 VDC ± 10%, 50 mA

InfraView Card Connections



Connector	Name	Description
J101	Lamp Connections	Supplies power to InfraStake modules
J102	Lamp Power	Receives power from 12 V power supply for modules
J301	Control Power	Receives power from machine
J302	Control Power	Duplicate connector for daisy chaining PM400s together
J303	Discrete I/O	Communicates with controller
J304	AS-I	Communicates with controller

Connector	Name	Description
J305	AS-I	Duplicate connector for daisy chaining PM400s together

Controller Connections

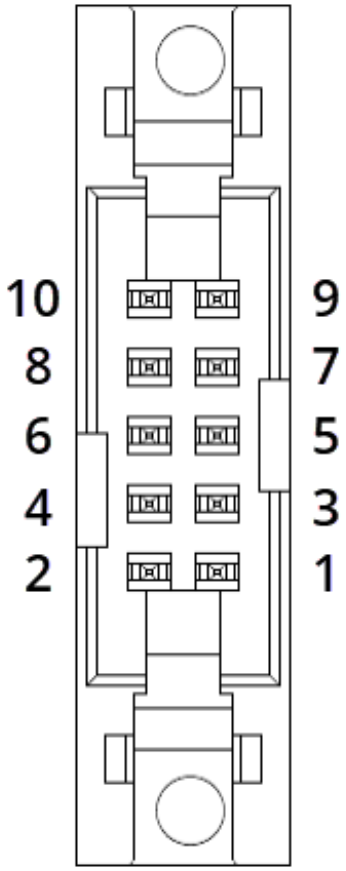
Connections to a PLC or other controller are typically made through the Discrete I/O Interface (J303) connector located on the InfraView Interface Board. The connection can also be made through the AS-Interface (J304 or J305) connector.

Discrete I/O Interface – J303

The PM400 has a 10-conductor ribbon cable used to control 1 to 4 modules.

Pin	Description	Wire Specifications	Color
1	Input Common (PNP – 0V; NPN – 24V)	22-28 AWG Stranded	Black
2	Lamp 1 On Input	22-28 AWG Stranded	White
3	Lamp 2 On Input	22-28 AWG Stranded	Gray
4	Lamp 3 On Input	22-28 AWG Stranded	Purple
5	Lamp 4 On Input	22-28 AWG Stranded	Blue
6	Output Common (PNP – 0V)	22-28 AWG Stranded	Green
7	Lamp 1 Status Output	22-28 AWG Stranded	Yellow
8	Lamp 2 Status Output	22-28 AWG Stranded	Orange
9	Lamp 3 Status Output	22-28 AWG Stranded	Red
10	Lamp 4 Status Output	22-28 AWG Stranded	Brown

Note: Ribbon cable length must be 3 meters or less to comply with CE.



AS-Interface – J304 & J305

The AS-I network requires an AS-I master and AS-I power supply which are offered by most PLC manufacturers. The use of AS-I is typically only cost effective on systems with 13 or more Infra lamps. Extol prefers the Wago System 750 AS-I master (P/N: 750-655) and AS-I power supply (P/N: 787-692) because they are cost effective and when combined with a Wago bus coupler, can be controlled over any I/O network. Go to as-interface.net or wago.com for more information.

AS-I Connections

Both J304 and J305 have the same pinout.

Pin	Description	Wire Specifications
+	AS-I + (30.5 VDC & Data)	18-22 AWG Stranded
-	AS-I - (30.5 VDC & Data)	18-22 AWG Stranded

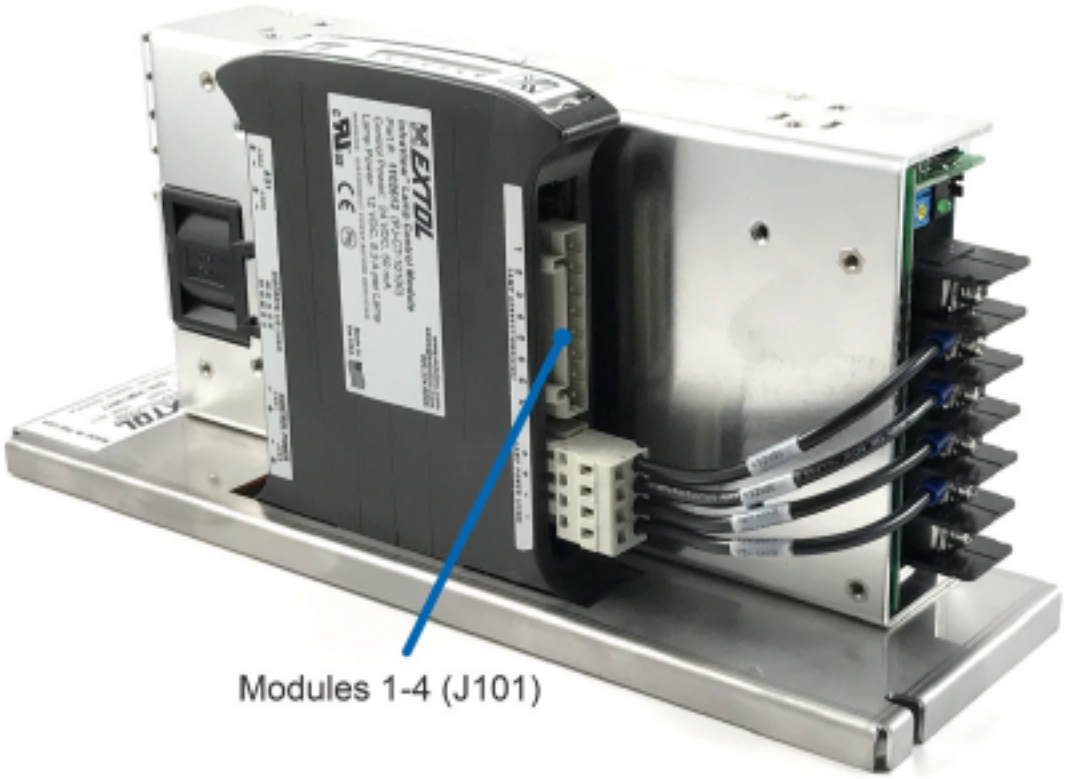
AS-I Power Requirements

The power supply must be AS-I compliant.

Description	Specification
Voltage	30.5 VDC

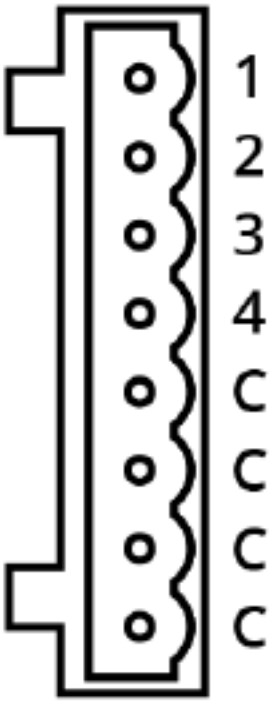
Description	Specification
Current	6 mA

Module Connections



Lamp Connection Interface – J101

Pin	Description	Wire Specifications
1 (Top)	Lamp 1 Output (0 VDC)	16 AWG Stranded (or larger)
2	Lamp 2 Output (0 VDC)	16 AWG Stranded (or larger)
3	Lamp 3 Output (0 VDC)	16 AWG Stranded (or larger)
4	Lamp 4 Output (0 VDC)	16 AWG Stranded (or larger)
C	Lamp Power (+12 VDC)	16 AWG Stranded (or larger)
C	Lamp Power (+12 VDC)	16 AWG Stranded (or larger)
C	Lamp Power (+12 VDC)	16 AWG Stranded (or larger)
C (Bottom)	Lamp Power (+12 VDC)	16 AWG Stranded (or larger)


1
2
3
4
C
C
C
C