Output Specifications Outputs per Module 16 sourcing Output Type TTI Driver Rated Voltage 5V Operating Voltage Range 5V ±2% Minimum Output Current 0uA Maximum Output Current 20mA per point or 100mA total On Voltage Drop 0.2 V @ Max Load Maximum Leakage Current ±1µA OFF to ON Response ≤ 0.5 ms ON to OFF Response ≤ 0.5 ms Status Indicators Logic Side (16 points) Commons 2 isolated (8 point / common) Protection Circuit None External Power Supply Required None

Document Name	Edition/Revision	Date
P2-16TD-TTL-DS	1st Edition	2/9/2024

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VAUTOMATION DIRECTS Productivity 2000



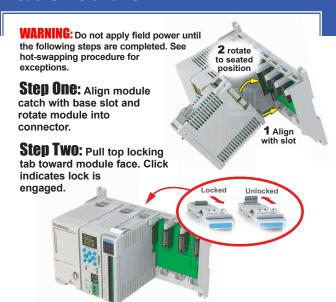
P2-16TD-TTL Sourcing TTL Output

The P2-16TD-TTL DC Output Module provides sixteen sourcing TTL-level outputs for use with the Productivity2000 System.

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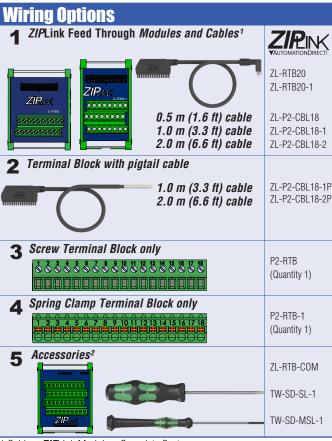
Terminal Block sold separately, (see wiring options on page 2).

Module Installation



Step Three: Attach field wiring using the removable terminal block or *ZIP*Link wiring



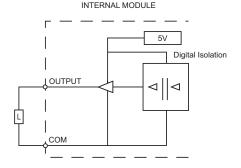


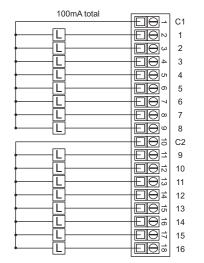
1.Cable + **ZIP**Link Module = Complete System

2. ZL-RTB-COM provides a common connection point for power or ground

Wiring Diagram and Schematic

QR Code







Use any QR Code reader application to display the module's product insert.

Caution: If possible, remove field power prior to proceeding. If not, then EXTREME care MUST be taken to prevent damage to the module, or even personal injury due to a short circuit from the live terminal block.

Important Hot-Swap Information

The Productivity2000 supports hot-swap! Individual modules can be taken offline, removed, and replaced while the rest of the system continues controlling your process. Before attempting to use the hot-swap feature, be sure to read the hot-swap topic in the programming software's help file or our online documentation at AutomationDirect.com for details on how to plan your installation for use of this powerful feature.

WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

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Removable Terminal Block Specifications

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Part Number	P2-RTB	P2-RTB-1	
Number of Positions	18 Screw Terminals	18 Spring Clamp Terminals	
Wire Range	30–16 AWG (0.051–1.31 mm²) Solid / Stranded Conductor 3/64 in. (1.2 mm) Insulation Maximum 1/4 in. (6–7 mm) Strip Length	28–16 AWG (0.081–1.31 mm²) Solid / Stranded Conductor 3/64 in. (1.2 mm) Insulation Maximum 19/64 in. (7–8 mm) Strip Length	
Conductors	"USE COPPER CONDUCTORS, 75°C" or Equivalent.		
Screw Driver Width	0.1 inch (2.5 mm) Maximum*		
Screw Size	M2	N/A	
Screw Torque	2.5 lb·in (0.28 N·m)	N/A	

^{*}Recommend Screw Driver TW-SD-MSL-1

General Specifications		
Operating Temperature	0° to 60°C (32° to 140°F),	
Storage Temperature	-20° to 70°C (-4° to 158°F)	
Humidity	5 to 95% (non-condensing)	
Altitude	2,000 meters max	
Pollution Degree	2	
Environmental Air	No corrosive gases permitted	
Vibration	IEC60068-2-6 (Test Fc)	
Shock	IEC60068-2-27 (Test Ea)	
Overvoltage Category	II	
Field to Logic Side Isolation	1750VDC applied for 5 seconds 420VDC applied for 1 minute	
Insulation Resistance	>10MΩ @ 500VDC	
Heat Dissipation	1420mW	
Enclosure Type	Open Equipment	
Module Keying to Backplane	Electronic	
Module Location	Any I/O slot in a Productivity2000 System.	
Field Wiring	Use ZIP Link Wiring System or removable terminal block (not included). See "Wiring Options" on page 2.	
Connector Type (not included)	18 Position Removable Terminal Block	
Weight	104g (3.66 oz)	
Agency Approvals	UL 61010-1 and UL 61010-2-201 File E139594, Canada & USA CE (EN 61131-2 EMC, EN 61010-1 and EN 61010-2-201 Safety)*	

^{*}See CE Declaration of Conformance