Datasheet





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tM-P4A4

4-channel Isolated Digital Input and 4-channel Source-type Isolated Digital Output Module

Introduction -

The tM-P4A4 provides 4 channels for digital input and 4 channels for digital output, each of which features photocouple isolation. The tM-P4A4 supports source-type output with short circuit protection, while input is sink-type. All input channels can be used an 16-bit counters. There are options for configuring power-on and safe digital output values. 4 kV ESD protection and 3750 Voc intra-module isolation are also provided.

Applications .

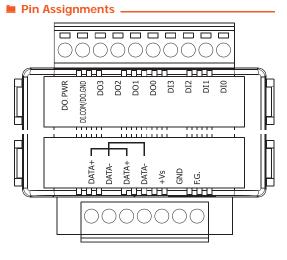
- All Types of On/Off Control
- Industrial Automation
- Industrial Machinery
- Building Automation
- Food and Beverage Systems
 Semiconductor Fabrication
- Control Systems

System Specifications

Communication						
Interface	RS-485					
Format	(N, 8, 1), (N, 8, 2), (O, 8, 1), (E, 8, 1)					
Baud Rate	1200 ~ 115200 bps					
Protocol	DCON, Modbus/RTU, Modbus/ASCII					
Dual Watchdog	Yes, Module (2.3 seconds), Communication (Programmable)					
LED Indicators						
Power	1 LED as Power Indicator					
Isolation						
Intra-module Isolation, Field-to-Logic	3750 Vdc					
EMS Protection						
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal					
	±8 kV Air for Random Point					
EFT (IEC 61000-4-4)	±4 kV for Power					
Power Requirements						
Reverse Polarity Protection	Yes					
Powered from Terminal Block	Yes, 10 ~ 30 V _{DC}					
Consumption	0.5 W Max.					
Mechanical						
Dimensions (W x L x H)	52 mm x 98 mm x 27 mm					
Installation	DIN-Rail Mounting					
Environment						
Operating Temperature	-25 ~ +75°C					
Storage Temperature	-30 ~ +75°C					
Humidity	10 ~ 95% RH, Non-condensing					

Features Source-type Digital Outputs Sink-type Digital Inputs

- Photocouple IsolationAll Channels Can Be Used As 16-bit Counters
- Dual Watchdog
- Configurable Power-on Value Settings
- Configurable Safe Value Settings
- Cost-effective
- Wide Operating Temperature Range: -25 ~ +75°C



I/O Specifications

Digital In	put/Counter				
Input Channels		4			
Туре		Wet Contact (Sink)			
On Voltage Level		+3.5 V _{DC} ~ 50 V _{DC}			
Off Voltage Level		+1 V Max.			
Input Impedance		10 KΩ, 0.66 W			
Counters	Channels	4			
	Max. Count	65535 (16-bit)			
Counters	Max. Input Frequency	100 Hz			
	Min. Pulse Width	5 ms			
Overvoltage Protection		70 V _{DC}			
Digital Ou	ıtput				
Output Channels		4			
Туре		Isolated Open Collector (Source)			
Max. Load Current		650 mA/channel			
Load Voltage		+10 VDC ~ +40 VDC			
Overvoltage Protection		47 V _{DC}			
Overload Protection		Yes			
Short Circuit Protection		Yes			
Power-on Value		Yes, Programmable			
Safe Value		Yes, Programmable			

tM-P4A4

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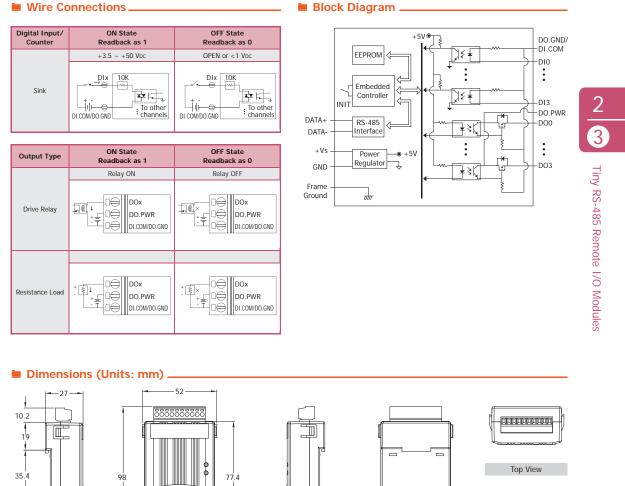
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Remote I/O Modules



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Ordering Information

tM-P4A4	CD
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4-channel Isolation Digital Input and 4-channel Source-type Isolated Digital Output Module (RoHS)

Related Products _

tM-7561 CR	Isolated USB to RS-485 Converter (RoHS)		tM-7510U CR	Isolated RS-485 Repeater (RoHS)	
tM-7520U CR	Isolated RS-232 to RS-485 Converter (RoHS)		MDR-20-24 CR	24W Single Output Industrial DIN-Rail Power Supply (RoHS)	tM-P4A4

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Sales: +44 (0) 1273 570 220 Website: www.amplicon.com Email: sales@amplicon.com