## **Fiche technique**





#### Introduction .

The tM-P8 offers 8 channels for digital input, each of which features photocouple isolation. In addition input can be either sink- or source-type using wire connections and all channels can be used as 16-bit counters. 4 kV ESD protection and 3750 V $_{\rm DC}$  intra-module isolation are also provided.

## Applications -

- All Kinds of On/Off Control
- Industrial Automation
  Industrial Machinery
- Semiconductor FabricationControl Systems
- Building Automation
- ,

• Food and Beverage Systems

## System Specifications .

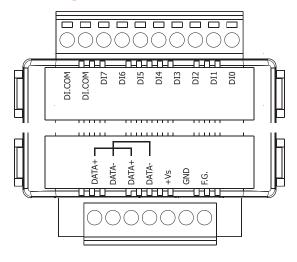
Communication					
Interface	RS-485				
Format	(N, 8, 1), (N, 8, 2), (O, 8, 1), (E, 8, 1)				
Baud Rate	1200 ~ 115200 bps				
Protocol	DCON, Modbus/RTU, Modbus/ASCII				
Protocol	Yes, Module (2.3 seconds),				
Dual Watchdog	Communication (Programmable)				
LED Indicators					
Power	1 LED as Power Indicator				
Isolation					
Intra-module Isolation, Field-to-Logic	3750 Voc				
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 VDC				
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				

## **Digital Inpu**

- Features
- Sink- and Source-type Digital Inputs
- Photocouple Isolation
- All Channels Can Be Used As 16-bit Counters
- Dual Watchdog
- Cost-effective
- Wide Operating Temperature Range: -25 °C ~ +75 °C

#### 

## Pin Assignments .



## I/O Specifications \_\_

Digital Input/Counter				
Input Channels		8		
Туре		Wet Contact (Sink, Source)		
On Voltage Level		+3.5 Vdc ~ 50 Vdc		
Off Voltage Level		+1 Vbc Max.		
Input Impedance		10 KΩ, 0.66 W		
Counters	Channels	8		
	Max. Count	65535 (16-bit)		
	Max. Input Frequency	100 Hz		
	Min. Pulse Width	5 ms		
Overvoltage Protection		70 V <sub>DC</sub>		

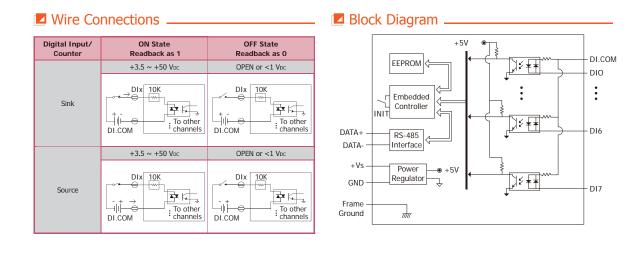
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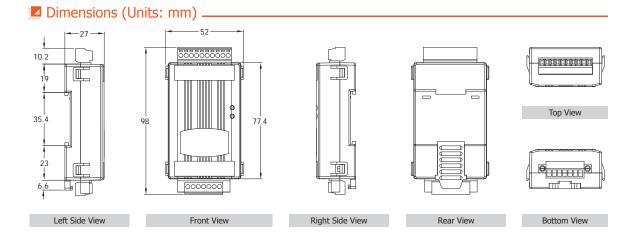


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Remote I/O Modules





## Ordering Information \_

8-channel Isolation Digital Input Module (RoHS)

tM-P8 CR

#### Related Products -

tM-7561 CR	Isolated USB to RS-485 Converter (RoHS)	1M-7	7510U CR	Isolated RS-485 Repeater (RoHS)
tM-7520U CR	Isolated RS-232 to RS-485 Converter (RoHS)	MDR		24W Single Output Industrial DIN Rail Power Supply (RoHS)

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