

#### Introduction -

The MQ-7244M is an Ethernet I/O device equipped with 8-channel DI and 8-channel DO, as well as the MQTT protocol is supported for connecting with a variety of digital sensors in Industrial Internet of Things (IIoT) applications. A web-based user interface is provided to configure module, monitor the network connection status and I/O status, and control digital output channels on the module via a normal web browser on a mobile device or computer.

The MQ-7244M features optical isolation for 2500 VDC of transient overvoltage protection, but doesn't provide channel-to-channel isolation. Each output channel can drive up to 650 mA load, together with configurable power-on value and safe value. It can safely be used in applications where hazardous voltages are present.

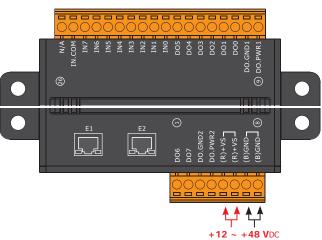
### System Specifications

Model	MQ-7244M					
Software						
Built-in Web Server	Yes					
Web HMI	Yes					
Communication						
Ethernet Port	2 x RJ-45, 10/100 Base-TX, Switch Ports					
Protocol	MQTT 3.1.1					
Dual Watchdog	Yes, Module (0.8 seconds), Communication (Configurable)					
PoE						
LED Indicators						
for System Running	Yes					
for Ethernet Link/Act	Yes					
for DI/DO status	Yes					
2-Way Isolation						
Ethernet	1500 VDC					
I/O	2500 VDC					
EMS Protection						
ESD (IEC 61000-4-2)	$\pm$ 4 kV Contact for Each Terminal and $\pm$ 8 kV Air for Random Point					
EFT (IEC 61000-4-4)	±4 kV for Power Line					
Surge (IEC 61000-4-5)	-					
Power						
Reverse Polarity Protection	Yes					
Powered from Terminal Block	+12 ~ +48 VDC					
Consumption	3.3 W					
Mechanical						
Dimensions (L x W x H)	120 mm x 97 mm x 42 mm					
Housing	Metal					
Installation	Wall Mounting					
Environment						
Operating Temperature	-25 ~ +75°C					
Storage Temperature	-30 ~ +80°C					
Humidity	10 ~ 90% RH, Non-condensing					

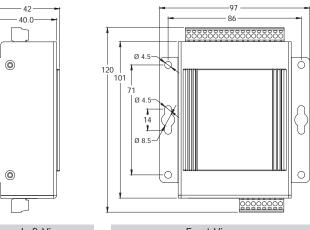
# I/O Specifications \_\_\_\_\_

Model	MQ-7244M						
Digital Input							
Channels	8						
Contact	Wet						
Sink/Source (NPN/PNP)	Sink/Source						
ON Voltage Level	+10 VDC ~ +50 VDC						
OFF Voltage Level	+4 VDC Max.						
Input Impedance	10 kΩ						
Overvoltage Protection	+70 VDC						
Digital Output	·						
Channels	8						
Туре	Isolated Open Collector						
Sink/Source (NPN/PNP)	Sink						
Max. Load Current	650 mA/channel at 25°C Direct Drive Power Relay Module						
Load Voltage	3.5 VDC ~ 50 VDC						
Overvoltage Protection	60 VDC						
Overload Protection	1.4 A						
Short-circuit Protection	Yes						
Power-on Value	Yes, Configurable						
Safe Value	Yes, Configurable						

# Pin Assignments \_\_\_\_\_



## Dimensions (Units: mm) -



Left View

Front View

# Wire Connections \_\_\_\_\_

Digital Input	Readback as 1	Readback as 0	Output Type	ON State Readback as 1	OFF State Readback as 0
Sink	+10 ~ +50 VDC	OPEN or <4 VDC	Drive Relay		
Source	+10 ~ +50 VDC	OPEN or <4 VDC	Resistance Load	+ - DO.PWR DOx DO.SND	+

# Ordering Information \_\_

MQ-7244M CR

MQTT I/O Module with 2-port Ethernet Switch, with 8-ch DI and 8-ch DO (RoHS)

E-mail: sales@icpdas.com