

# MS1-P08G

## Quick Start Guide

### 1. Overview

MS1-P08G Premium Unmanaged Industrial Ethernet Switch is specially designed to expand reliable Ethernet connectivity to factory floors and outdoor environments with extreme temperature and climatic conditions.

MS1-P08G is equipped with 8 x 10/100/1000Mbps RJ45 Ports enclosed in an IP30 housing (not certified by UL).

### 2. Package Checklist

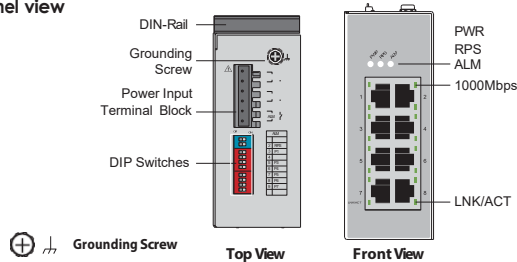
The switch is shipped with the following items\*.

If any of these are missing or damaged, please contact your customer service representative for assistance.

- MS1-P08G Switch x 1
- Quick Installation Guide x 1

\*Contents of the package can be adjusted based on customer demand.

#### Panel view



### 3. Mounting and Dismounting to DIN-Rail



#### ATTENTION:

The MS1-P08G is an open type device and shall be DIN-Rail mounted or wall mounted (optional) in the cabinet and the ambient temperature should not exceed the operating temperature.

#### ATTENTION:

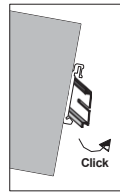
L'MS1-P08G est un appareil de type ouvert et doit être monté sur rail DIN ou fixé au mur (en option) dans l'armoire et la température ambiante ne doit pas dépasser la température de fonctionnement.

#### Mounting the switch

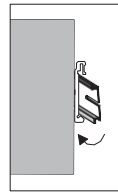
Place the switch on the DIN rail from above using the slot and push the front of the switch toward the mounting surface until it snaps into place with a click sound.

#### Dismounting the switch

Press the switch from the top and pull out the lower edge of the switch, then remove the switch from the DIN rail.



Mounting the Switch



Removing the Switch



#### ATTENTION:

A corrosion-free mounting rail is advisable.

When installing, make sure to allow for enough space between devices to properly install the cabling. And provide ample space for air flow.

#### ATTENTION:

Un rail de montage sans corrosion est recommandé.

Lors de l'installation, assurez-vous de laisser suffisamment d'espace entre les appareils pour installer correctement le câblage. Et offrez suffisamment d'espace pour la circulation de l'air.

### 4. Grounding the switch

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting devices.



#### ATTENTION:

This product is intended to be mounted to a well-grounded mounting surface such as a metal panel.

#### ATTENTION:

Ce produit est destiné à être monté sur une surface de montage bien mise à la terre telle qu'un panneau métallique.

### 5. Wiring requirements



#### WARNING:

Safety measures should be taken before connecting the power cable. Turn off the power before connecting modules or wires. The correct power supply voltage is listed on the product label. Check the voltage of your power source to make sure that you are using the correct voltage. DO NOT use a voltage greater than what is specified on the product label. Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If current exceeds the maximum rating, the wiring can overheat causing serious damage to your equipment.

#### AVERTISSEMENT:

Des mesures de sécurité doivent être prises avant de brancher le câble d'alimentation. Coupez l'alimentation avant de connecter des modules ou des fils. La tension d'alimentation correcte est indiquée sur l'étiquette du produit. Vérifiez la tension de votre source d'alimentation pour vous assurer que vous utilisez la bonne tension. NE PAS utiliser une tension supérieure à celle indiquée sur PAS utiliser une tension supérieure à celle indiquée sur l'étiquette du produit. Calculez le courant maximum possible dans chaque fil d'alimentation et fil commun. Respectez tous les codes électriques dictant le courant maximum autorisé pour chaque taille de fil. Si le courant dépasse la valeur nominale maximale, le câblage peut surchauffer et endommager gravement votre équipement.

Please read and follow these guidelines:

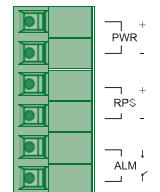
- Use separate paths to route wiring for power and devices. If power wiring and device wiring paths must cross make sure the wires are perpendicular at the intersection point.  
NOTE: Do not run signal or communications wiring and power wiring through the same wire conduit. To avoid interference, wires with different signal characteristics should be routed separately.
- You can use the type of signal transmitted through a wire to determine which wires should be kept separate. The rule of thumb is that wiring that shares similar electrical characteristics can be bundled together.
- You should separate input wiring from output wiring.
- We advise that you label the wiring to all devices in the system.

### 5.1 Wiring Power Input

#### 5.1.1 The switch with terminal block

You can use "PWR" for Primary Power input and "RPS" for Redundant Power Input. Check the polarity while connecting.

Top view of Terminal Block is shown in the figure right:



Terminal Block



#### Caution:

- Use copper conductors only
- Wiring cable temperature should support at least 221°F (105°C)
- Tighten the wire to a torque value 5lb
- The wire gauge for the terminal block should range between 12~24 AWG

#### ATTENTION:

- Utilisez uniquement des conducteurs en cuivre
- La température du câble de câblage doit supporter au moins 221°F (105°C)
- Serrer le fil à une valeur de couple de 5lb
- Le calibre du fil pour le bornier doit être compris entre 12 et 24 AWG



For more information contact Maple Systems at:  
email: sales@maplesystems.com  
Tel.: (425) 745 3229

To insert power wire and connect the 12~48VDC at a maximum of 0.5A DC power to the power terminal block, follow the steps below:

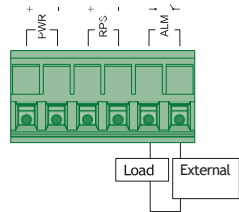
- Use a flat-head screw driver to loosen the wire-clamp screws
- Insert the negative/positive DC wires into the PWR-/PWR+ terminals, respectively
- Tighten the wire-clamp screws to prevent the wires from loosening



**ATTENTION:**  
Please use a power supply from 12~48VDC, the device power shall be supplied by SELV circuit.

**ATTENTION:**  
Veuillez utiliser une alimentation de 12 ~ 48VDC, l'alimentation de l'appareil doit être fournie par un circuit SELV.

## 5.2 Wiring the relay contact (ALM)



The switch has one set of relay alarm output. This relay contact uses two contacts of the terminal block on the switch top panel. The two contacts of the 6-pin terminal block connector are used to detect user-configured events. The two wires attached to the fault contacts form an open circuit when a user-configured event is triggered. If a user-configured event does not occur, the fault circuit remains closed.

## 5.3 Cabling RJ45

Connect one end of an Ethernet/RJ45 cable into Ethernet port of the switch and the other end to attached networking device.

- Ports 1-8 of the switch support 10/100/1000Mbps speeds.
- All the RJ45 ports on the switch support auto negotiation and auto MDI/MDI-X to eliminate the need for crossover cabling.

\*Category 5e cable or above should be used.

## 6. DIP Switch Setting



1 PWR	ON : Primary power alarm reporting is enabled
2 RPS	OFF : Primary power alarm reporting is disabled
3 P1	
4 P2	ON : Redundant power alarm reporting is enabled
5 P3	OFF : Redundant power alarm reporting is disabled
6 P4	
7 P5	ON : Port 1~8 link alarm reporting is enabled
8 P6	OFF : Port 1~8 link alarm reporting is disabled
9 P7	
10 P8	

## 7. LED Indicators

PWR	Illuminated	Primary Power on
(Green)	Off	Primary power off or failure

RPS	Illuminated	Redundant Power on
(Green)	Off	Redundant Power off or failure
ALM	Illuminated	Alarm triggered for abnormal power or port link down status
(Red)	Off	Normal operation or DIP switch off
1000	Illuminated	Link speed at 1000Mbps
(Green)	Off	Link speed at 10/100Mbps
LNK/ACT	Illuminated	Port link-up
(Green)	Blinking	Activity (receiving or transmitting data)
	Off	Port disconnected or link failed

## 8. Environmental limits

Operating Temperature	-40°F~167°F (-40°C~75°C)
Storage Temperature	-40°F~185°F (-40°C~85°C)
Ambient relative humidity	5 to 95% (non-condensing)

### NOTE:

- The highest degree of temperature operation certified by UL is -40°C~-75°C (-40°F~167°F).
- Two switches must be installed at least 5 cm apart.



**ATTENTION:**  
This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

**ATTENTION:**  
Cet appareil est conforme à la partie 15 des règles de la FCC. Le fonctionnement est soumis aux conditions suivantes :

1. Cet appareil ne doit pas causer d'interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable.

### ATTENTION:

If the equipment is used in a manner not specified by Maple Systems, the protection provided by the equipment may be impaired.

### ATTENTION:

Si l'équipement est utilisé d'une manière non spécifiée par Maple Systems, la protection fournie par l'équipement peut être altérée.

### ATTENTION:

Please leave at least 5cm of space at the left and right of the unit for ventilation.

### ATTENTION:

Veuillez laisser au moins 5 cm d'espace à gauche et à droite de l'unité pour la ventilation.

## LIMITED WARRANTY

Maple Systems warrants that new hardware Products will be free from electrical and mechanical defects in materials and workmanship Three (3) years from the date of shipment for parts and labor. Maple Systems does not warrant and will not be liable for any design, materials, construction criteria or goods furnished or specified by buyer (including that sourced from other manufacturers or vendors specified by buyer). Any warranty applicable to such buyer-specified items will be limited solely to the warranty, if any, extended by the original manufacturer or vendor directly or indirectly to buyer. Maple Systems does not warrant the compatibility of its products with the goods of other manufacturers or buyer's application except to the extent expressly represented in Maple Systems published specifications or written quotation.

As Maple Systems is not responsible for, nor has control over, the setup, configuration, usage, or operation of the product, Maple Systems will not be liable for any resulting harm, injury, or damage (whether direct or indirect in nature). Those responsible for the use and application of this product accept all responsibility and liability, and must satisfy themselves that all essential steps have been taken to meet all performance and safety requirements, regulations, codes, standards, and applicable laws. As any installation shall have its own specific requirements, regulations, or conditions, all pictures, graphs, samples, diagrams, examples, illustrations, and the like, are intended for the purpose of example only. Maple Systems is not responsible or liable for any harm, injury, or damage (whether direct or indirect in nature) that may occur from the use of this product.

Remedies under the above warranties will be limited, at Maple Systems option, to the replacement, repair, or issuance of a credit for the purchase price, of the Maple Systems products involved, and where applicable, only after the return of such products pursuant to Maple Systems instructions. The foregoing will be the exclusive remedies for any breach of warranty or breach of contract arising therefrom.

Warranty satisfaction is available only if (a) Maple Systems is provided prompt written notice of the warranty claim and (b) Maple Systems examination discloses that any alleged defect has not been caused by misuse; neglect; improper installation, operation, maintenance, repair not authorized by Maple Systems, alteration or modification by other than Maple Systems; accident; use on current or voltages other than specified specifically by Maple Systems, application or installation not in accordance with published instruction manuals or unusual deterioration or degradation of the Products or parts thereof due to physical environment or electrical or electromagnetic noise environment. No license is granted by implication or otherwise under any patent or patent rights of Maple Systems, Inc. Maple Systems retains the right to revise or change its products and documentation at any time without notice.

### Disclaimer and Limitation of Liability

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, MAPLE SYSTEMS WILL NOT BE LIABLE FOR ANY BUSINESS INTERRUPTION OR LOSS OF PROFIT, REVENUE, MATERIALS, ANTICIPATED SAVINGS, DATA, CONTRACT, GOODWILL OR THE LIKE (WHETHER DIRECT OR INDIRECT IN NATURE) OR FOR ANY OTHER FORM OF INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND. MAPLE SYSTEMS MAXIMUM CUMULATIVE LIABILITY RELATIVE TO ALL OTHER CLAIMS AND LIABILITIES, INCLUDING OBLIGATIONS UNDER ANY INDEMNITY, WHETHER OR NOT INSURED, WILL NOT EXCEED THE COST OF THE PRODUCT(S) GIVING RISE TO THE CLAIM OR LIABILITY. MAPLE SYSTEMS DISCLAIMS ALL LIABILITY RELATIVE TO GRATUITOUS INFORMATION OR ASSISTANCE PROVIDED BY, BUT NOT REQUIRED OF MAPLE SYSTEMS HEREUNDER. THESE DISCLAIMERS AND LIMITATIONS OF LIABILITY WILL APPLY REGARDLESS OF ANY OTHER CONTRARY PROVISION HEREOF AND REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHERWISE, AND FURTHER WILL EXTEND TO THE BENEFIT OF MAPLE SYSTEMS VENDORS, APPOINTED DISTRIBUTORS AND OTHER AUTHORIZED RESELLERS AS THIRD-PARTY BENEFICIARIES. EACH PROVISION HEREOF WHICH PROVIDES FOR A LIMITATION OF LIABILITY, DISCLAIMER OF WARRANTY OR CONDITION OR EXCLUSION OF DAMAGES IS SEVERABLE AND INDEPENDENT OF ANY OTHER PROVISION AND IS TO BE ENFORCED AS SUCH.