

Installation and commissioning

Instructions for installation and commissioning.

Instruction No: 350-277

Product Identification

Table 1. Product designation, part number and email number.

Product designation	Article number	E-number (SE)
PoE Switch 8p PS OUT S	PL02P00048P050P-UTS	51 73 418

PoE



If

PoE Switch 8p PS OUT S is a power supply with PoE switch for outdoor use. Built to withstand Nordic conditions - summer as winter. The product is different from indoor battery backups from Milleteknik and some features have been added and

Revisions and the edition of this document

The current and most recently published edition of this document is available at www.milleteknik.com.

The validity of this document can not be guaranteed, as new editions are published without prior notice.

Original instructions for use: Swedish.¹

Instructions for use, technical data and translations thereof may contain errors. It is always the responsibility of the installer to install the product in a safe manner.

¹Translations in languages other than Swedish are indicative only and not verified. Translation should always be checked against the Swedish original to ensure accurate information

Symbols

Table 2. Symbol Explanation

Symbols	Name	Explanation
	Warning	Risk of electric shock, improper installation or hot surfaces. Appears in some manuals
	Note	Used for supplementary information that clarifies the text.
	Caution/Important	Indicates the risk of equipment damage or malfunction. Also used for information that is important but not security-related
	Tips	Displays practical advice or shortcuts for installation, operation, or service.
	CE marking	The product complies with applicable EU directives and harmonised standards.
	Read the manual	Please read manual before installation and service.
	Do not dispose of in household waste	The product is covered by the WEEE Directive and must not be disposed of with household waste, it must be recycled and delivered to a recycling centre.
	Recycling	Packaging, products and other materials that do not contain electronics must be recycled in accordance with local environmental regulations.

Installation — general information

Installation shall be carried out by a competent electrician in accordance with the applicable national electrical installation rules.

The product is of protection class I and must be connected to a grounded 230 V AC circuit.

- A main switch according to IEC 60947-1 shall be provided in the fixed installation. The switch should be easily accessible and clearly marked with its function.
- The area of the supply cable shall be at least 1,0 mm² and fitted with a fuse T 2,5 A (slow-blown) or equivalent.
- AC and low voltage cables must not be pulled together. Keep separate cable chutes or bundles
- Check that protective earth (PE) is properly connected before turning on voltage.
- Ensure free air circulation around the enclosure at least 100 mm, unless otherwise specified. Ventilation openings must not be covered.
- The product is intended for outdoor installation.

These general requirements apply to all Milleteknik products with 230 V mains connection.

Requirements for main switch, fuse and cable area

In order to comply with applicable electrical safety requirements, the installation shall be equipped with a main switch according to IEC 60947-1.

Table 3. Main switch and fuse

Component	Requirements
Main switch	A main switch according to IEC 60947-1 shall be included in the installation and be easily accessible. Separated phase (L) and neutral (N)

Component	Requirements
Fuse	The supply circuit shall be protected by a fuse or automatic fuse with rated current according to the product specification (normally T 2,5 A slow-blow or equivalent). Refer to the device's nameplate.
Fuses	Approved type according to IEC 60127.
Cross-sectional area (230 V)	At least 1,0 mm ²
Cable length	In the case of longer wiring, voltage drops should be taken into account so that the operating voltage does not fall below 230 V $\pm$ 10% at the unit.
Strain relief	All cables must be properly secured and strain relief checked before energizing the unit.

These requirements apply to all Milleteknik products with 230 V mains connection.

Enclosures

General assembly instructions

Outdoor mounting on pole

- The product is intended for mounting on a pole with rails or corresponding fastening parts.
- Enclosure to be mounted vertical.
- For good ventilation, at least 100 mm of free space should be provided around the enclosure.
- Use rails and fasteners that are compatible with the weight and mounting pattern of the product.
- Install the rails in the product before installing the post brackets or pipe clamps.
- Place pipe clamps or corresponding fastening parts around the post and connect them to the mounting points of the rails.
- Check that the product is aligned and mounted in a vertical position before tightening.
- The diameter and material of the post should be suitable for the selected type of fastening detail.
- Tighten all screws and nuts according to the recommendations of the fastening details.
- Ensure that the product is firmly fixed and cannot rotate or slide on the post after assembly.
- Cable connections should be oriented downwards or according to the specific installation instructions of the product.
- Avoid locations where water can flow directly onto the enclosure from surfaces above.
- Avoid placement in direct sunlight or near heat sources.
- Installation shall be carried out in accordance with the applicable installation rules and by a competent installer.

Mounting

Use the appropriate screw for mounting on a wall or in a 19" rack. Screws for mounting on a wall or in a rack are not included.

For wall mounting in concrete, concrete screws must be used. For rack mounting, M6 with basket nut is used

Screw length should be adjusted according to wall material and load. The specified screw length is the minimum allowable length

Table 4. Screw when mounting

Kaspling	Number	Screw ^a
OUT S	4	Concrete screw 5,0x40 mm

^aScrew for mounting is not included.

Mounting holes, spacing and ø.

Table 5. Dimensions

Enclosure, dimensions (WxHxD).	Mounting hole inside (W x H)	External mounting dimensions (W x H)
300 x 250 x 141 mm	-	..a.

^a Mounted on pole, see post bracket for details.

Mounting options and accessories

To ensure a smooth installation, we offer several custom mounts for our UT series enclosures (S, M and L). In the matrix below you will see which options are compatible

Please note that a wall mount is always included as standard with all models. For pole mounting or needing extra sun protection, separate optional kits are required

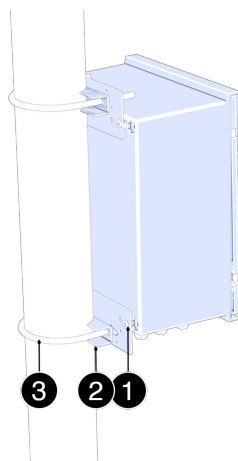
Table 6. Matrix bracket

Enclosure	Wall Bracket	Pole Bracket	Sun protection	Camera and pole mount (upcoming)	Speaker Bracket
OUT S	Included	Pole Mount Kit for UT S and UT M	Sun Shield Kit	Not Possible	Not Possible

Table 7. Matrix bracket

Accessories	Enclosure
Pole Mount Kit for UT S and UT M	UT S and UT M
Sun Shield Kit	UT S, UT M and UT L

Mounting on pole



Mounting on pole

See component overview for screw, nut, washers and spacers.

Table 8. Components for assembly

No.	Explanation
1	Fastening plate.
2	Counter.
3	U-bolt.

Assemble in this order:

1. Place the mounting plates (3) on the upper and lower attachment points of the enclosure and attach them lightly with the screws provided. Do not tighten finally yet.
2. Pass the lower U-bolt (2) around the post and through the holes in the lower mounting plate. Install washers and nuts. Tighten lightly.
3. Pass the upper U-bolt (2) around the post and through the holes in the upper mounting plate. Install washers and nuts

4. Adjust the position of the enclosure so that it is in solder and centered toward the post.
5. Tighten all nuts in sequence: — lower U-bolt — upper U-bolt — screws to the mounting plates
6. Check the attachment by lightly loading the enclosure forward/backward to ensure stable mounting.

Component overviews

Component Overview Mounting Kits

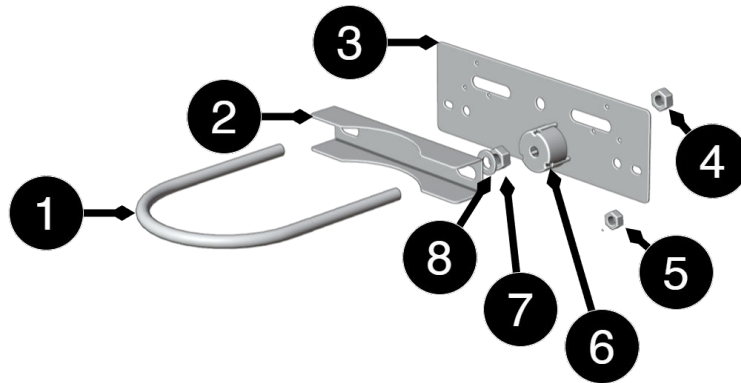


Table 9. Component Overview

No.	Explanation	Size	Number
1	Fixing plate	125mm	2
2	U-bolt for pole	-	2
3	Washers and nuts	-	2
4,7	Nut	M10	4
5	Nut	M6LM	8
6	Distance	Ø 36 mm, depth 20 mm	4
8	Washer	10 (5x20x2)	4

Component overviewNOVA FLX L

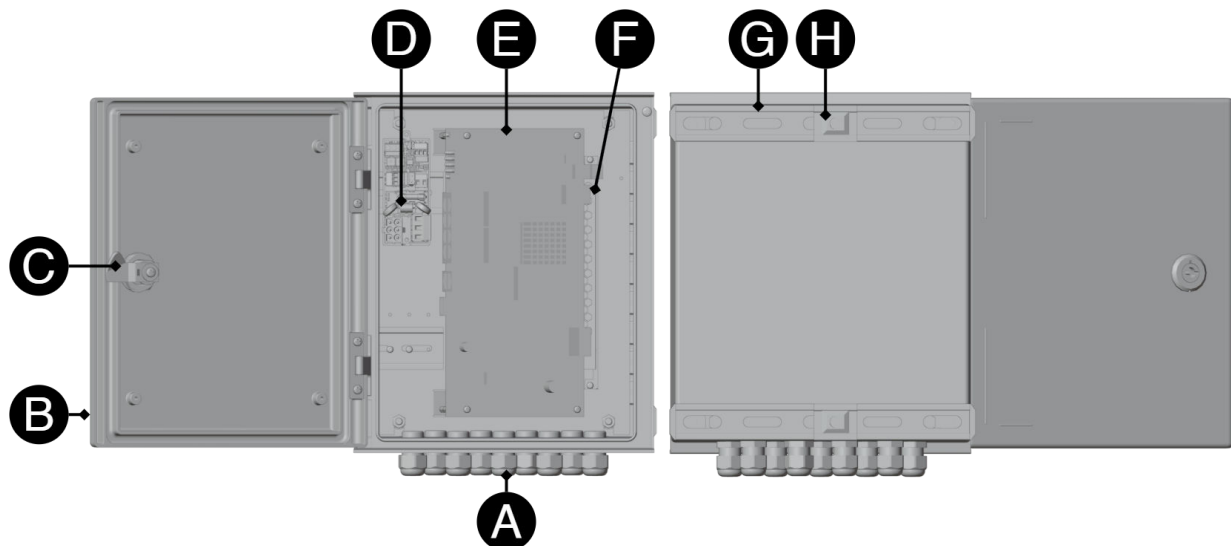


Table 10. Component Overview

Letter	Explanation
A	Cable grommets.
B	Door.
C	Lock.

Letter	Explanation
D	Plugging/lightning protection board.
E	Poe card.
F	Power supplies.
G	Bracket on the back.
H	Fastening screw.

Short description 230 V plug in, 24 V DC out and lightning protection

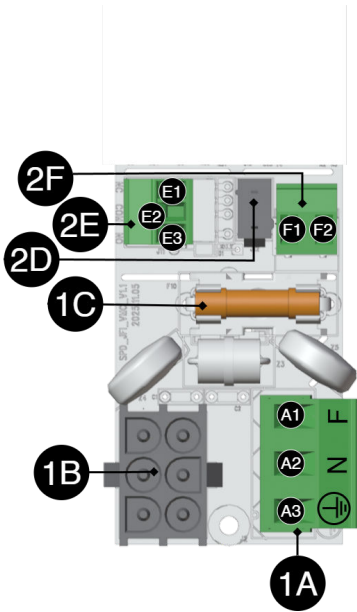


Table 11. Short description, part 1.

Designation	Explanation
1A	Connection 230 V AC inbound.
A1	Phase (F)
A2	Neutral (N)
A3	Soil (PE)
1B	Connection to power supply.
1C	Net securing.

Table 12. Short description, part 2.

Designation	Explanation
2D	24 V DC power supply from power supply.
2e	Alarms
E1	N.C.
E2	COM
E3	NOS
2F	24 V out.
F1	-
F2	+

Switching on power supply

230 V is connected to terminal 1A.

Connect supply voltage, 230 V AC

Supply voltage is connected to the terminal block.

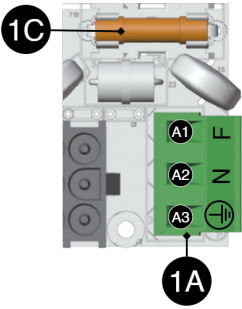
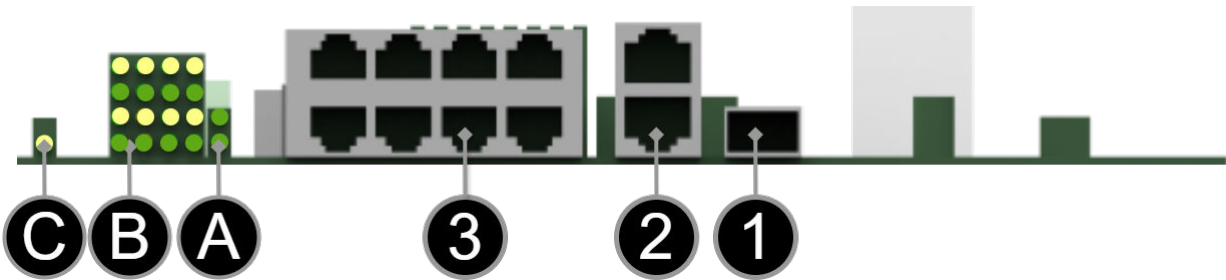


Table 13. Short description, part 1.

Designation		Explanation
1A		Connection 230 V AC inbound.
	A1	Phase (F)
	A2	Neutral (N)
	A3	Soil (PE)
1C		Net securing.

Short description for PoE switch 4p



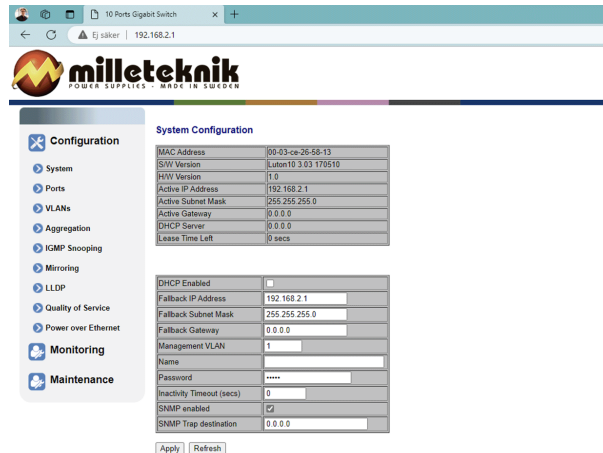
[sv] Notera att bilden kan vara vänd

Table 14. Short description

Number/ Letter	Explanation
1	SFP-port.
2	2 pcs. RJ-45 ports for data, non-PoE, (not powered).
3	8 pcs. RJ-45 powered ports for connecting
A	Indication, green LED. This is only an indication of data transmission through the port and not the status of the connected device. This indication is for the two RJ-45 ports, (2), which are not PoE fed
B	Indication, yellow LED lights up when PoE device is plugged in. This is only an indication that the port is connected and not the status of the connected device. Glows green when transferring data. This indication applies to the PoE fed RJ-45 ports (3).
C	Glows yellow when the card is energized.

How the PoE switch software is accessed

How the software is accessed in the PoE Switch



System Configuration	
MAC Address	00:03:ce:26:58:13
SW Version	Luton10 3.03 170810
HW Version	1.0
Active IP Address	192.168.2.1
Active Subnet Mask	255.255.255.0
Active Gateway	0.0.0.0
DHCP Server	0.0.0.0
Lease Time Left	0 secs

DHCP Enabled	☐
Fallback IP Address	192.168.2.1
Fallback Subnet Mask	255.255.255.0
Fallback Gateway	0.0.0.0
Management VLAN	1
Name	
Password	*****
Inactivity Timeout (secs)	0
SNMP enabled	☒
SNMP Trap destination	0.0.0.0

Apply Refresh

This section shows how to log in to the switch's configuration web page.

To configure the software in the switch, the correct IP address needs to be set on the computer.

Access to the switch's software is through a browser, (such as: Chrome, Edge, Firefox, etc.).

Follow the steps to access the switch's settings.



NOTE

The settings shown are settings for PC, (Windows 7 - Windows 11). Windows and names may vary between different versions of Windows. Unfortunately, we cannot provide support for settings of your computer.



NOTE

IP address of the switch (factory setting): **192.168.2.1**

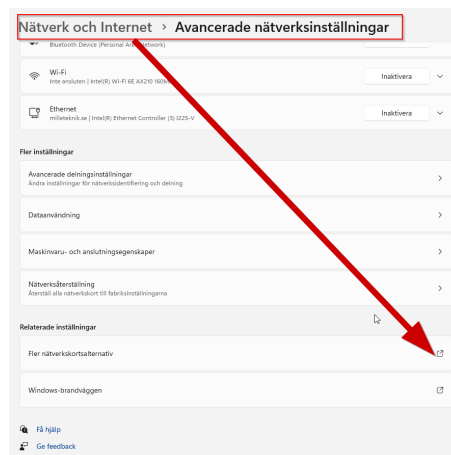
Password (factory setting): **admin**



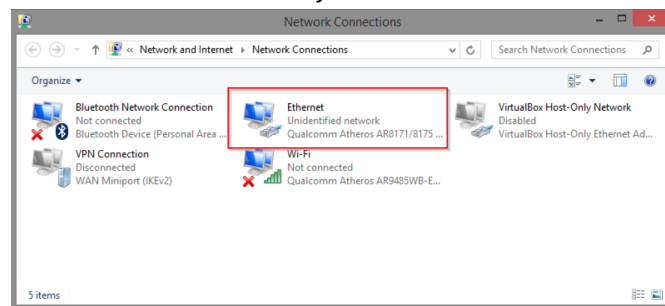
NOTICE

The address of the PoE switch is: **192.168.2.1** and username and password are: **admin/admin** The IP address in the switch is static (fixed) and therefore the computer's IP address and subnet mask must be static.

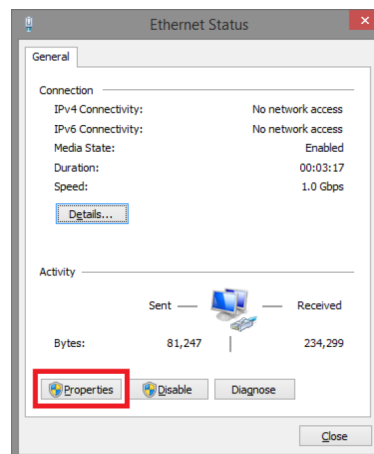
1. Open settings and go to **Network and Internet** -> **Advanced network settings**. Open **more network card options**.



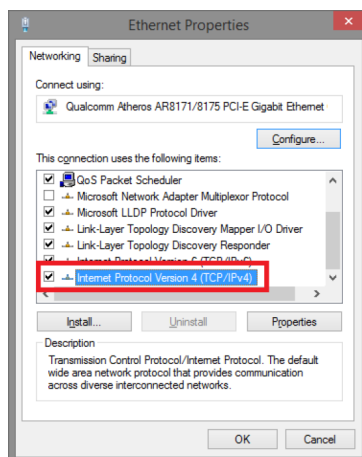
2. A Network Connections window will appear showing all available network connections on the computer. Double-click the network connection you use to connect to the switch.



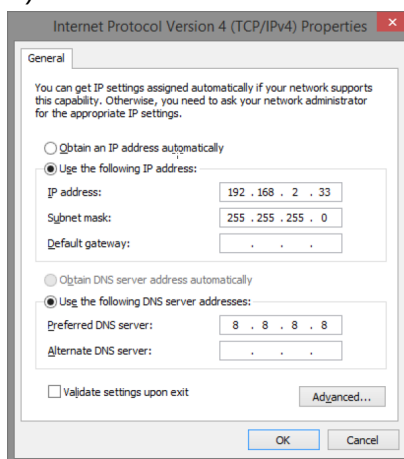
3. Ethernet status window appears. Click the button **Characteristics** as shown in the figure below.



4. Double-click: Internet Protocol Version 4 (TCP / IPv4).



5. Set the computer's IP address and subnet mask as shown in the figure below. By default, the product's **IP address be 192.168.2.1**. You can set any IP address as long as it is not the same as your switch's IP address and is in the same network segment as your switch's IP address. Press on **OK** to apply the TCP/IPv4 settings you just made. Now you can connect to your switch using a web browser (Chrome, Edge or Firefox).



6. Connect an RJ-45 cable and connect to the PoE switch.

Log in to the PoE switch



NOTE

IP address of the switch (factory setting): **192.168.2.1**

Password (factory setting): **admin**



NOTE

If you get a warning that the page is not secure/the connection is not private, click "advanced" and then "continue".

1. Start the browser on your computer.

2. Login to PoE switch.

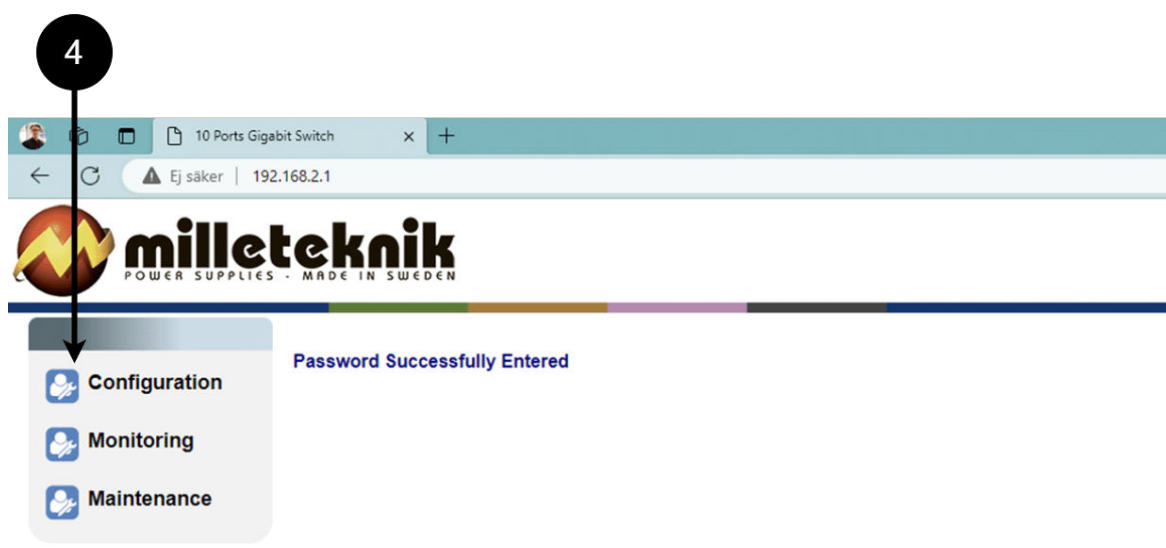
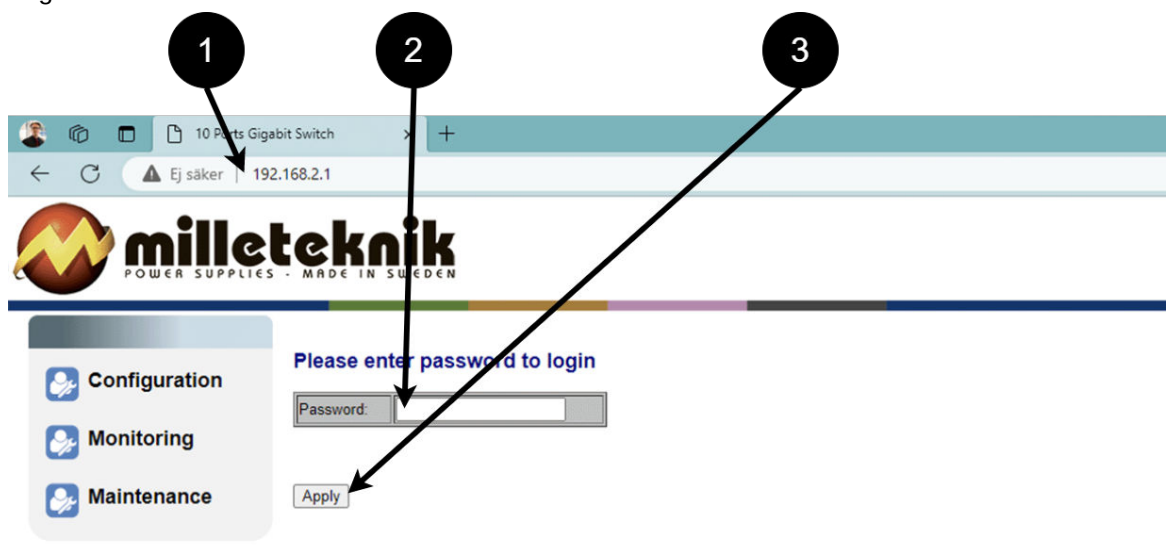


Table 15. Log in to the switch.

Number	Explanation
1	IP address of the PoE switch: 192.168.2.1
2	Password: admin
3	Apply = Ok
4	Menu in the PoE switch

Configuration

System, configuration

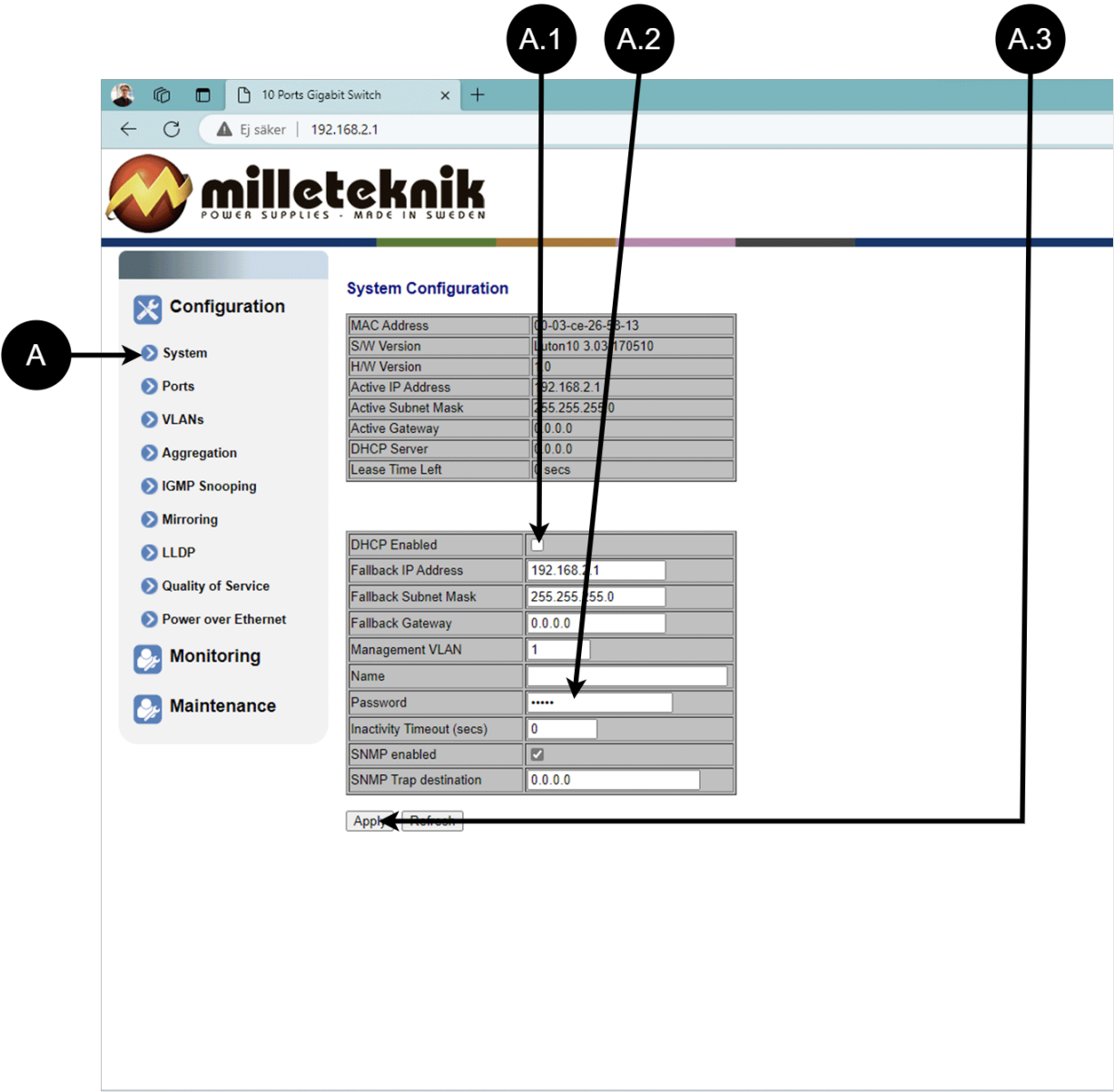


Table 16. System, configuration.

Letter, number	Explanation
A	PoE switch system configuration page
A.1	Tick here if you are going to use DHCP, see warning below.
A.2	Changes the factory default password, (admin).
A.3	If you have made any changes, you need to click "Apply" to save the changes.



WARNING

The settings on this page normally do not need to be changed. Only change the settings if you absolutely know what you are doing.

Factory reset the PoE device if it does not behave as expected after adjusting settings on this page.

Ports, configuration



WARNING

The settings on this page normally do not need to be changed. Only change the settings if you absolutely know what you are doing.

Factory reset the PoE device if it does not behave as expected after adjusting settings on this page.

Table 17. Ports, configuration.

Letter, number	Explanation
B	Gates
B.1	This setting normally does not need to be changed. Select the speed of the PoE switch's ports.
B.2	This setting normally does not need to be changed.

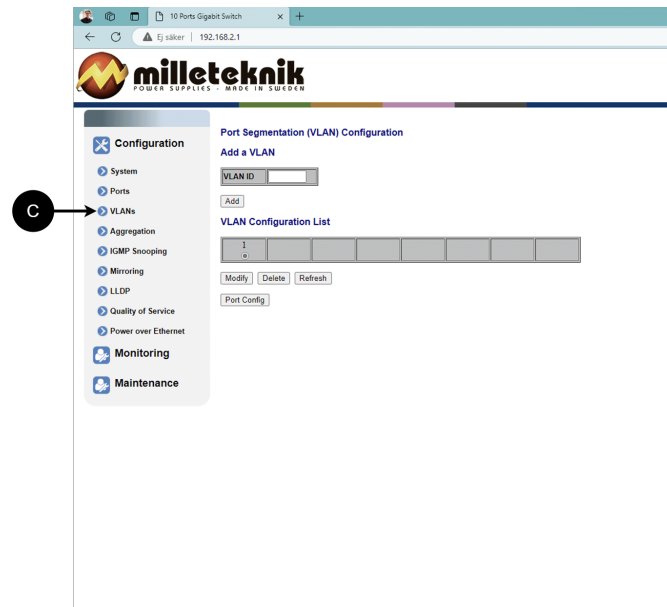
VLAN configuration



WARNING

The settings on this page normally do not need to be changed. Only change the settings if you absolutely know what you are doing.

Factory reset the PoE device if it does not behave as expected after adjusting settings on this page.



C: Configuration of Virtual LAN.

Aggregation, configuration



WARNING

The settings on this page normally do not need to be changed. Only change the settings if you absolutely know what you are doing.

Factory reset the PoE device if it does not behave as expected after adjusting settings on this page.

D: Load balancing between the ports.

IGMP Snooping, configuration



WARNING

The settings on this page normally do not need to be changed. Only change the settings if you absolutely know what you are doing.

Factory reset the PoE device if it does not behave as expected after adjusting settings on this page.

E: Switch that controls reception.

Mirroring, configuration



WARNING

The settings on this page normally do not need to be changed. Only change the settings if you absolutely know what you are doing.

Factory reset the PoE device if it does not behave as expected after adjusting settings on this page.

F: Mirroring of ports.

LLDP configuration



WARNING

The settings on this page normally do not need to be changed. Only change the settings if you absolutely know what you are doing.

Factory reset the PoE device if it does not behave as expected after adjusting settings on this page.

Table 18. LLDP configuration.

Letter, number	Explanation
G	LLDP stands for "Link Layer Discovery Protocol", which is a network protocol standard used to discover and communicate information about network devices connected to the same Ethernet network. The protocol allows devices such as switches and routers to send and receive messages containing information about the device's identification, capabilities, and connection topology.
G.1	RX and TX are abbreviations used in electronics, communications, and computer networking to indicate the direction of data flow between devices. RX: The abbreviation "RX" stands for "Receive" or "Reception". It indicates that the device is receiving data or signals from another device. When a device has an RX input, it means that it is designed to receive data or information from a transmitting device. TX: The abbreviation "TX" stands for "Transmit" or "Transmission". It indicates that the device is transmitting data or signals to another device. If a device has a TX output, it means that it is designed to transmit data or information to a receiving device. These abbreviations are especially common when it comes to data communication, such as in the context of network cables where there are specific RX and TX wires that allow for two-way communication between devices.

QoS, configuration



WARNING

The settings on this page normally do not need to be changed. Only change the settings if you absolutely know what you are doing.

Factory reset the PoE device if it does not behave as expected after adjusting settings on this page.

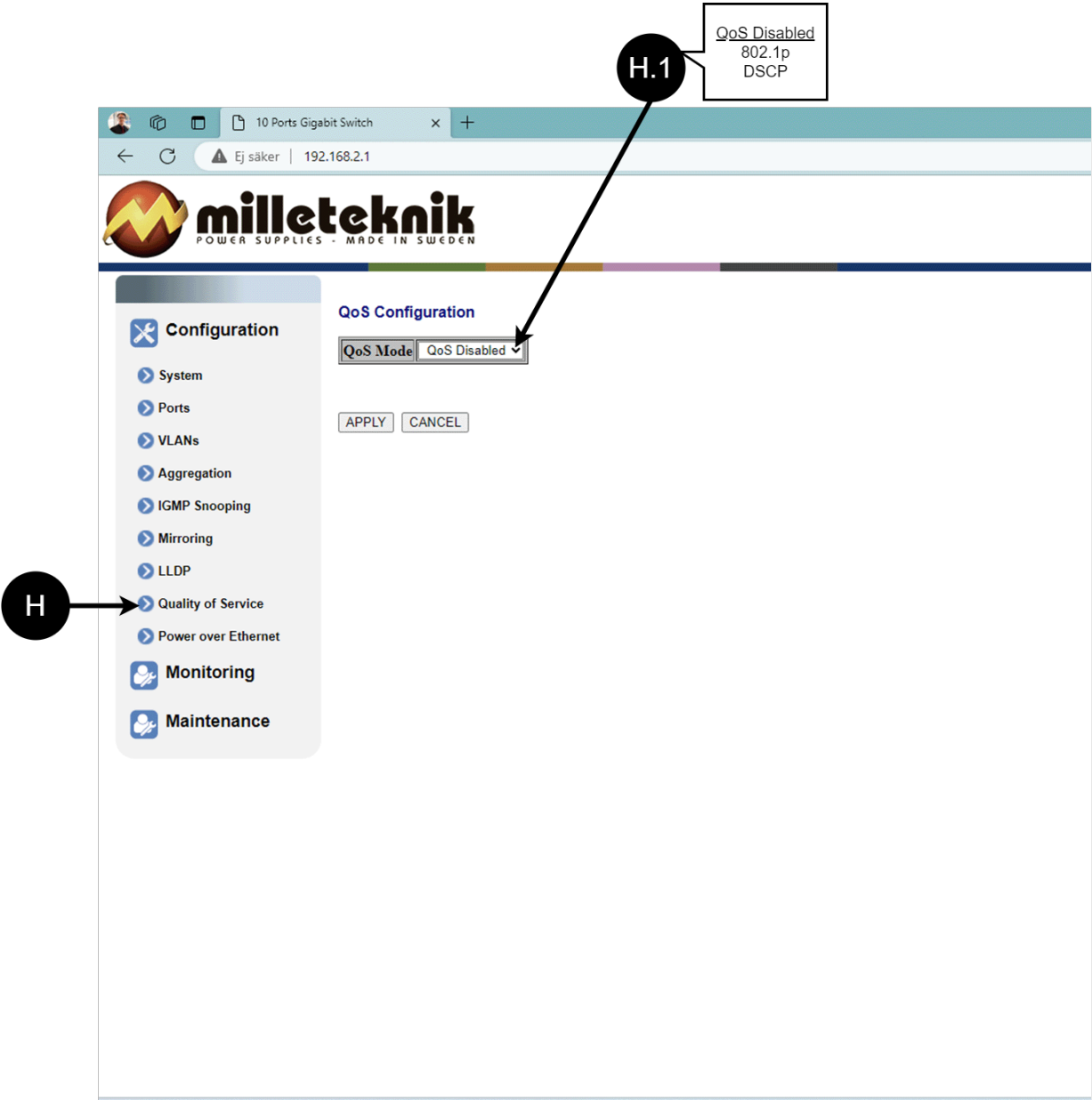


Table 19. QoS, configuration.

Letter, number	Explanation
H	QoS gives different network traffic different priority, helping to ensure that important services are delivered with sufficient bandwidth and minimal delay even when the network is under load.
H.1	Sets whether QoS is active.

PoE, configuration

**WARNING**

The settings on this page normally do not need to be changed. Only change the settings if you absolutely know what you are doing.

Factory reset the PoE device if it does not behave as expected after adjusting settings on this page.

Table 20. PoE, configuration

Letter, number	Explanation
I	Power over Ethernet
I.1	Turns PoE function/port on or off. Remember to press "Apply" to save changes.

Monitoring

Statistics, overview

Table 21. Statistics, overview.

Letter, number	Explanation
J	Statistics, overview
J.1	Traffic per port.

Statistics, detailed

Table 22. Statistics, detailed.

Letter, number	Explanation
K	Detailed statistics
K.1	Select the port for which you want statistics.

IGMP status

L

Configuration

Monitoring

Statistics Overview

Detailed Statistics

IGMP Status

LLDP Statistics

LLDP Table

Ping

Maintenance

Warm Restart

Factory Default

Software Upload

Configuration File Transfer

Logout

10 Ports Gigabit Switch

Ej säker | 192.168.2.1



IGMP Status

VLAN ID	Querier	Queries transmitted	Queries received	v1 Reports	v2 Reports	v3 Reports	v2 Leaves
1	Idle	0	0	0	0	0	0

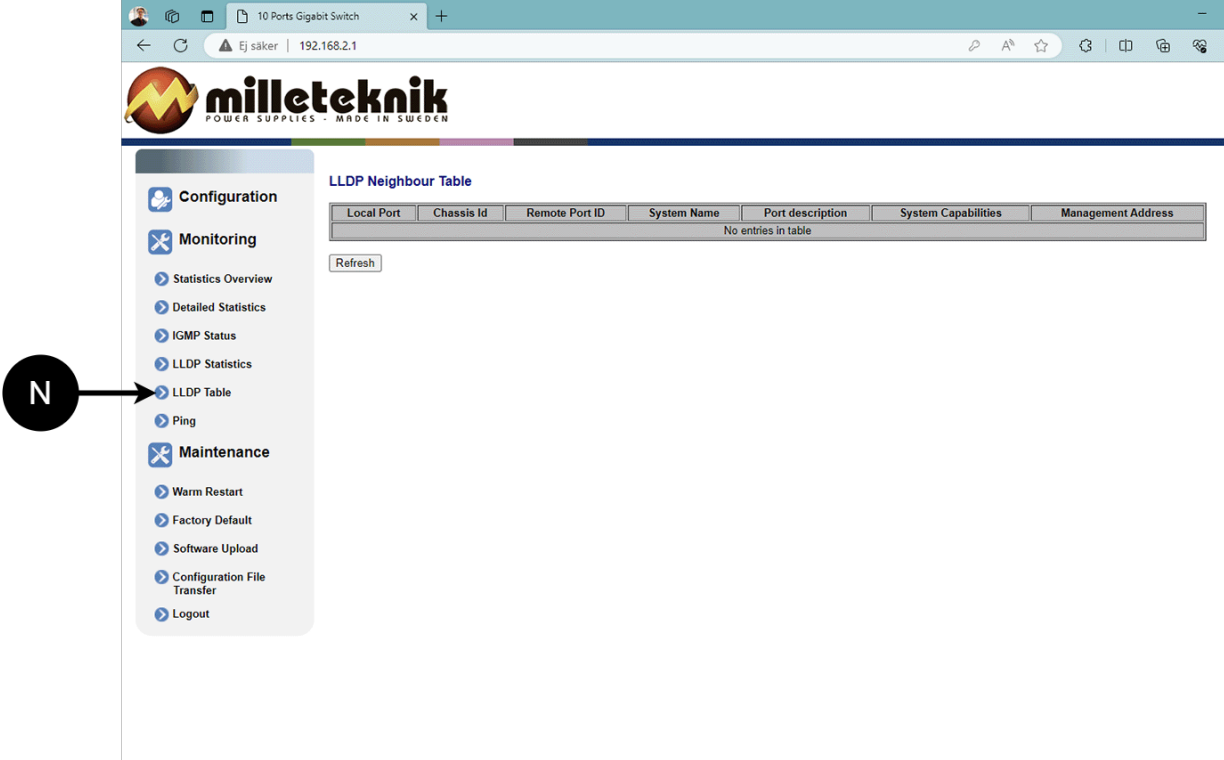
Refresh

L: Status of IGMP

LLDP statistics

M: LLDP statistics

LLDP table



The screenshot shows a web browser window with the URL `192.168.2.1`. The page displays the Milleteknik logo and a navigation menu on the left. The menu is divided into three sections: Configuration, Monitoring, and Maintenance. The Monitoring section is expanded, showing options like Statistics Overview, Detailed Statistics, IGMP Status, LLDP Statistics, LLDP Table, and Ping. A callout 'N' points to the 'LLDP Table' option. The main content area shows the 'LLDP Neighbour Table' with a table header and a 'Refresh' button. The table is currently empty, displaying 'No entries in table'.

Local Port	Chassis Id	Remote Port ID	System Name	Port description	System Capabilities	Management Address
No entries in table						

N: LLDP overview.

Ping

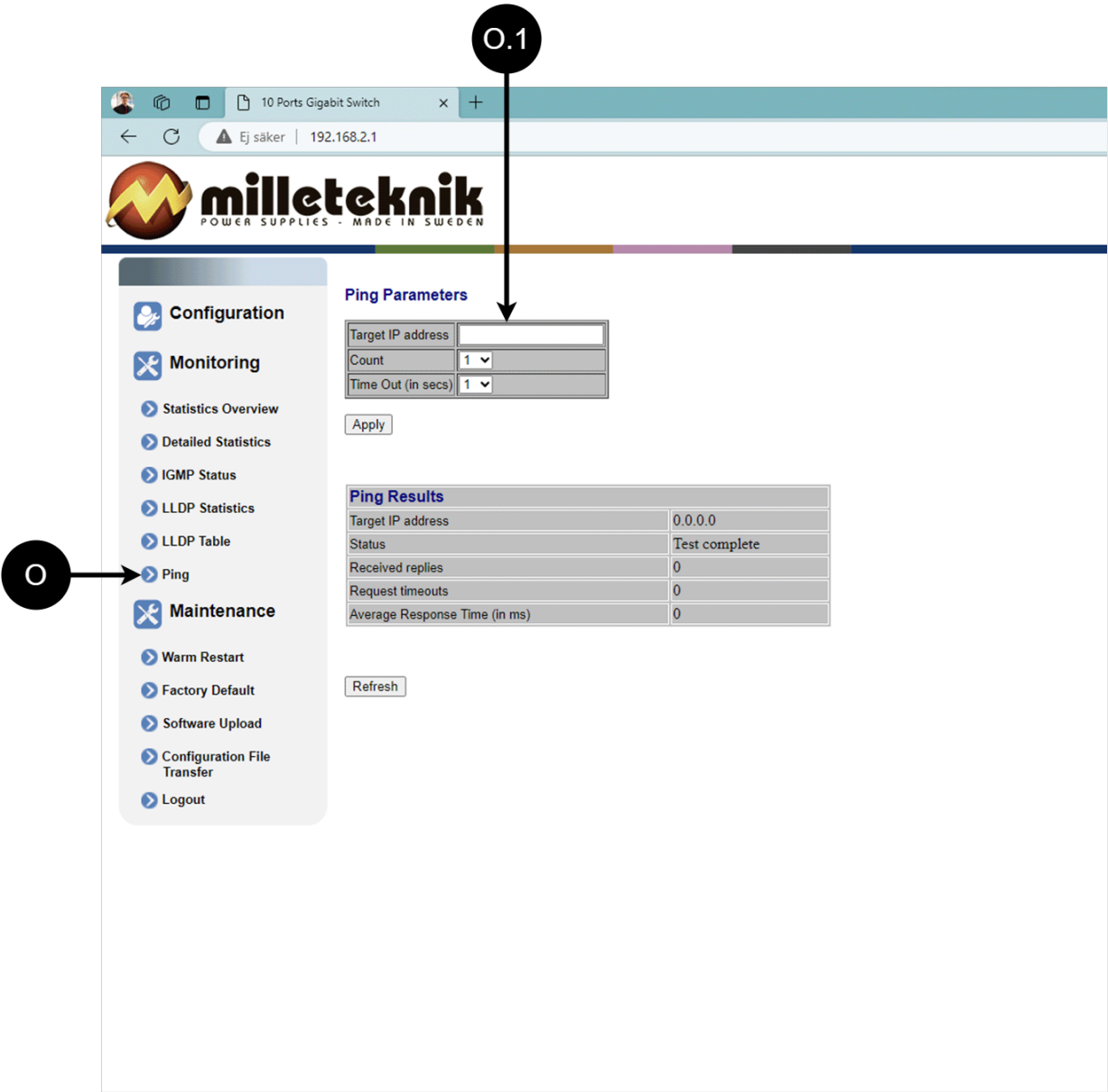


Table 23. Ping.

Letter, number	Explanation
O	Ping
[sv] O.1	Input address to test the connection and response time.

Maintenance

Reboot

**WARNING**

Restart is done by PoE switch, battery backup is not restarted. Upon reboot, connected devices will lose connection. Alarm can be set to battery backup, but it disappears when the PoE switch is back on.

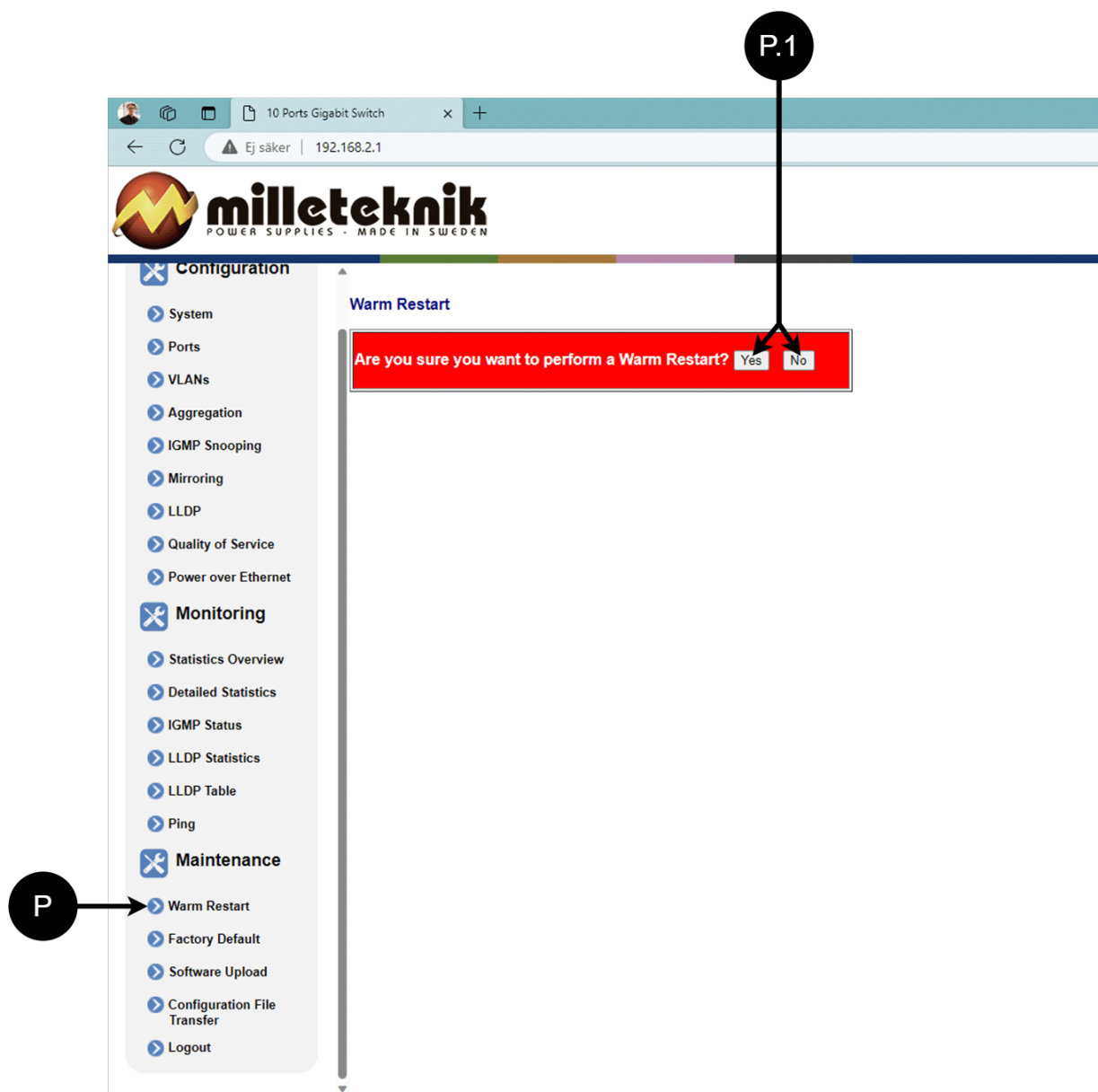


Table 24. Restarting the PoE switch.

Letter, number	Explanation
P	Rebooting the PoE switch.
P.1	Select "Yes" to reboot the switch.

Factory reset



WARNING

Factory reset is done by PoE switch. Battery backup is not restored. On reset, connected devices will lose connection. Alarm can be set to battery backup, but it disappears when the PoE switch is back on.

Factory reset of the switch can only be done from the software's (this) interface.

Recommendation: Keep IP address 192.168.2.1 and note password.



IMPORTANT

During a factory reset, all settings, including IP settings, are lost. Save configuration before factory reset. See [Upload new software \[23\]](#)

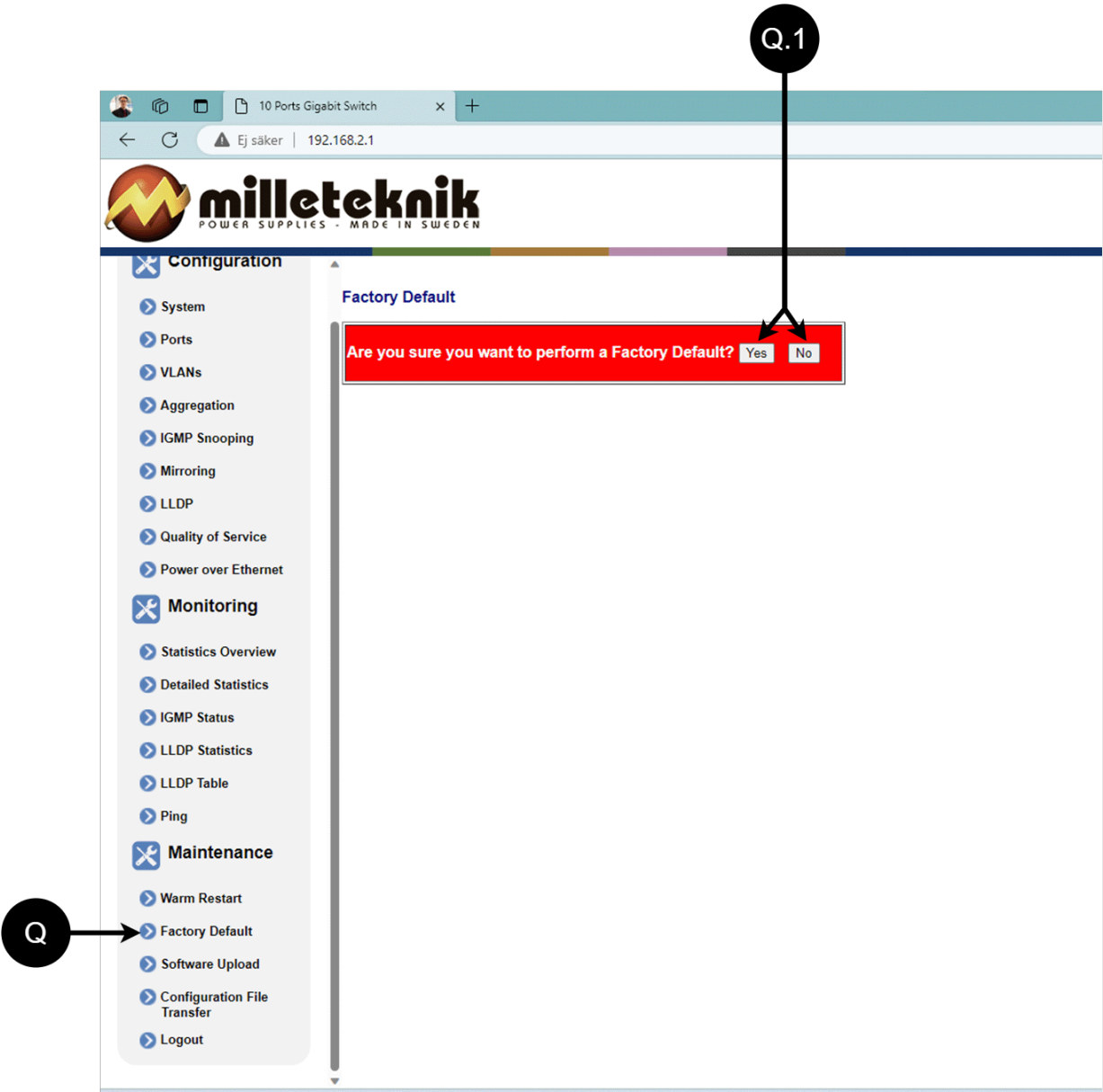


Table 25. PoE switch factory reset.

Letter, number	Explanation
Q	Factory reset the PoE switch.
Q.1	Select "Yes" to factory reset the PoE switch.

Upload new software



WARNING

Only use software you received from Milleteknik's support. Milleteknik assumes no responsibility for software or consequences such as damage to the device or peripheral equipment or other damage that may arise from uploading unapproved software.

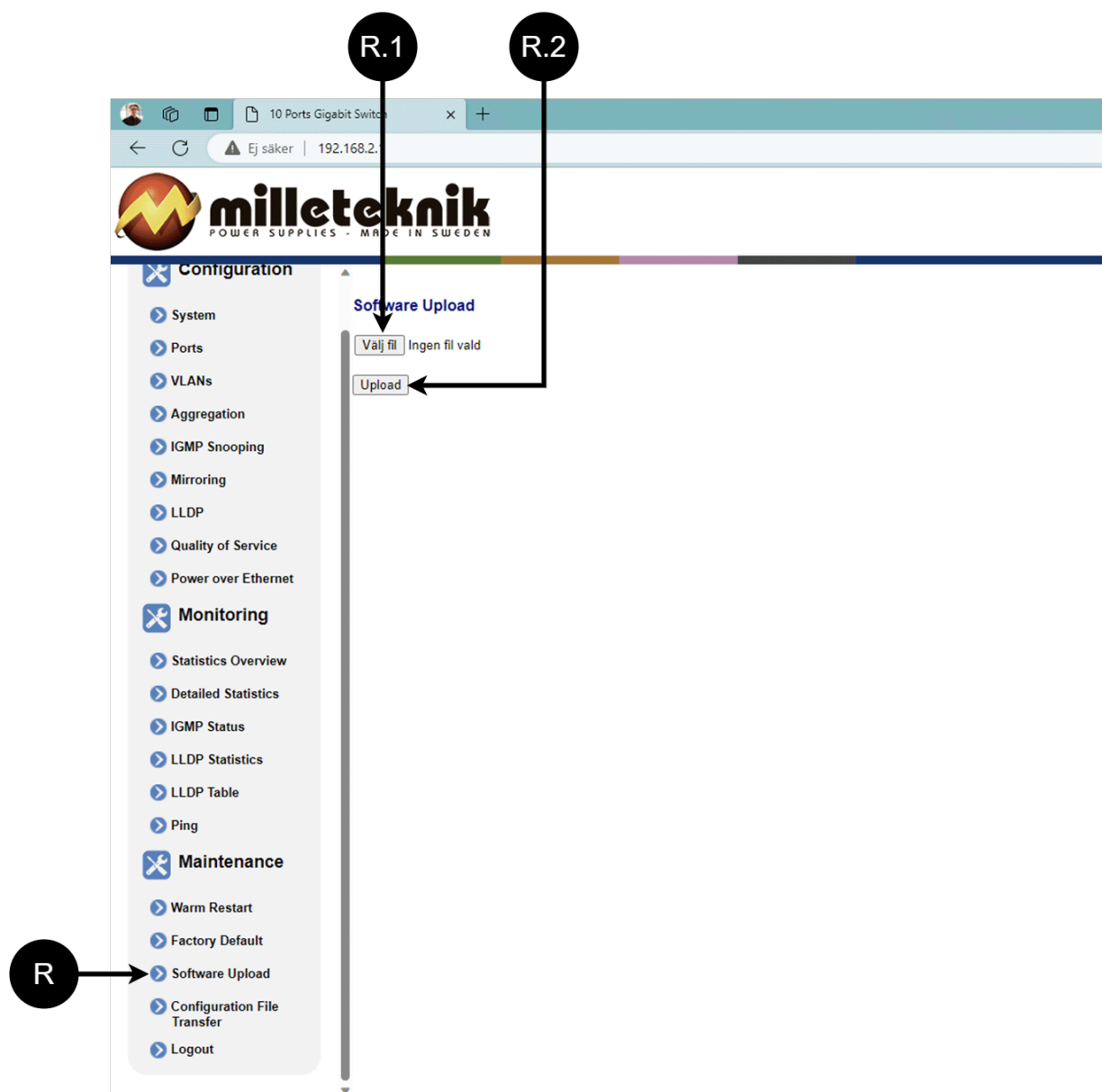


Table 26. Upload new software.

Letter, number	Explanation
R	Upload new software to the Switch.
R.1	Navigate to the location on your computer where you saved the file.
R.2	Click "Upload" to upload the software.

Load and save configuration file

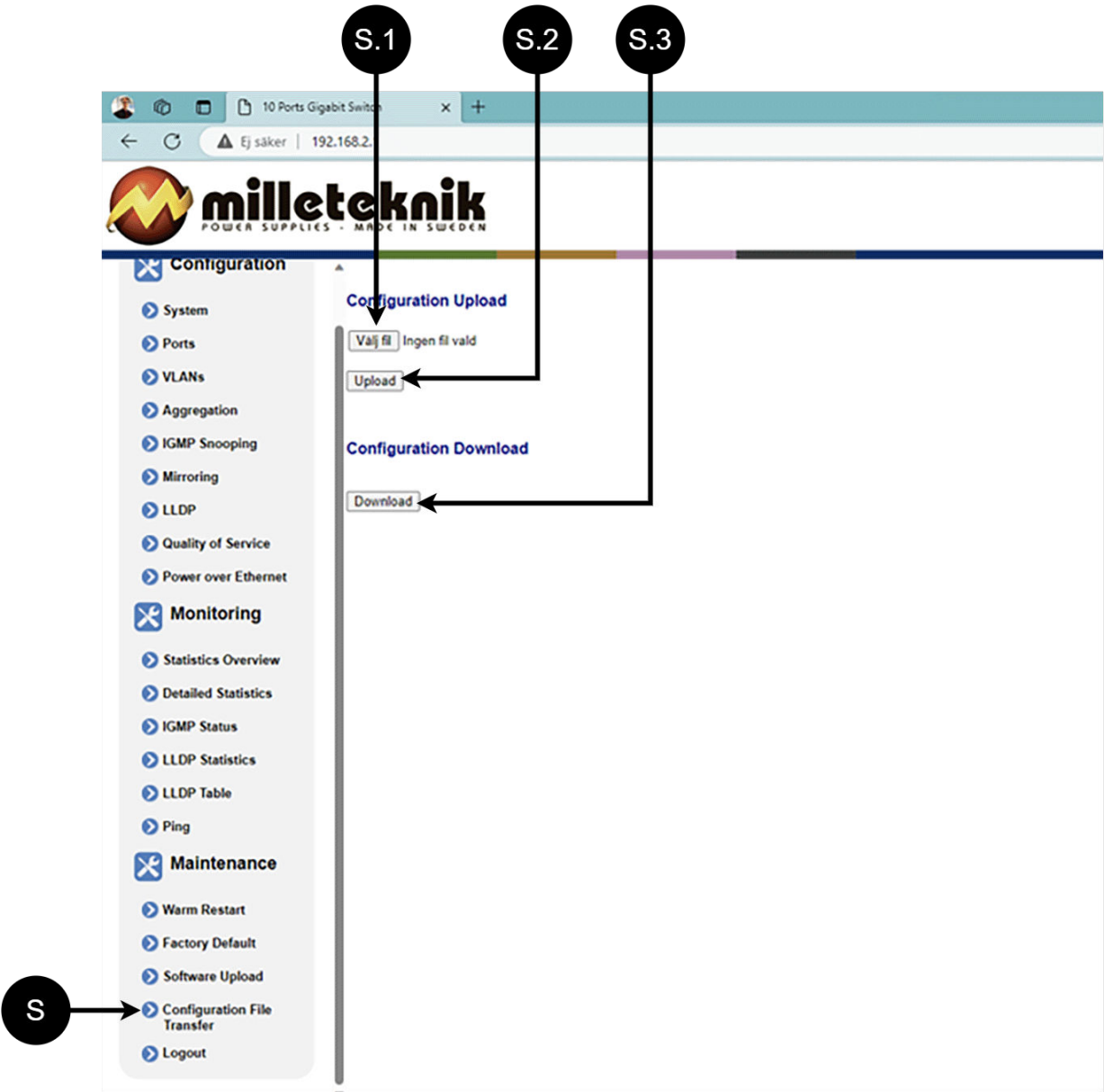
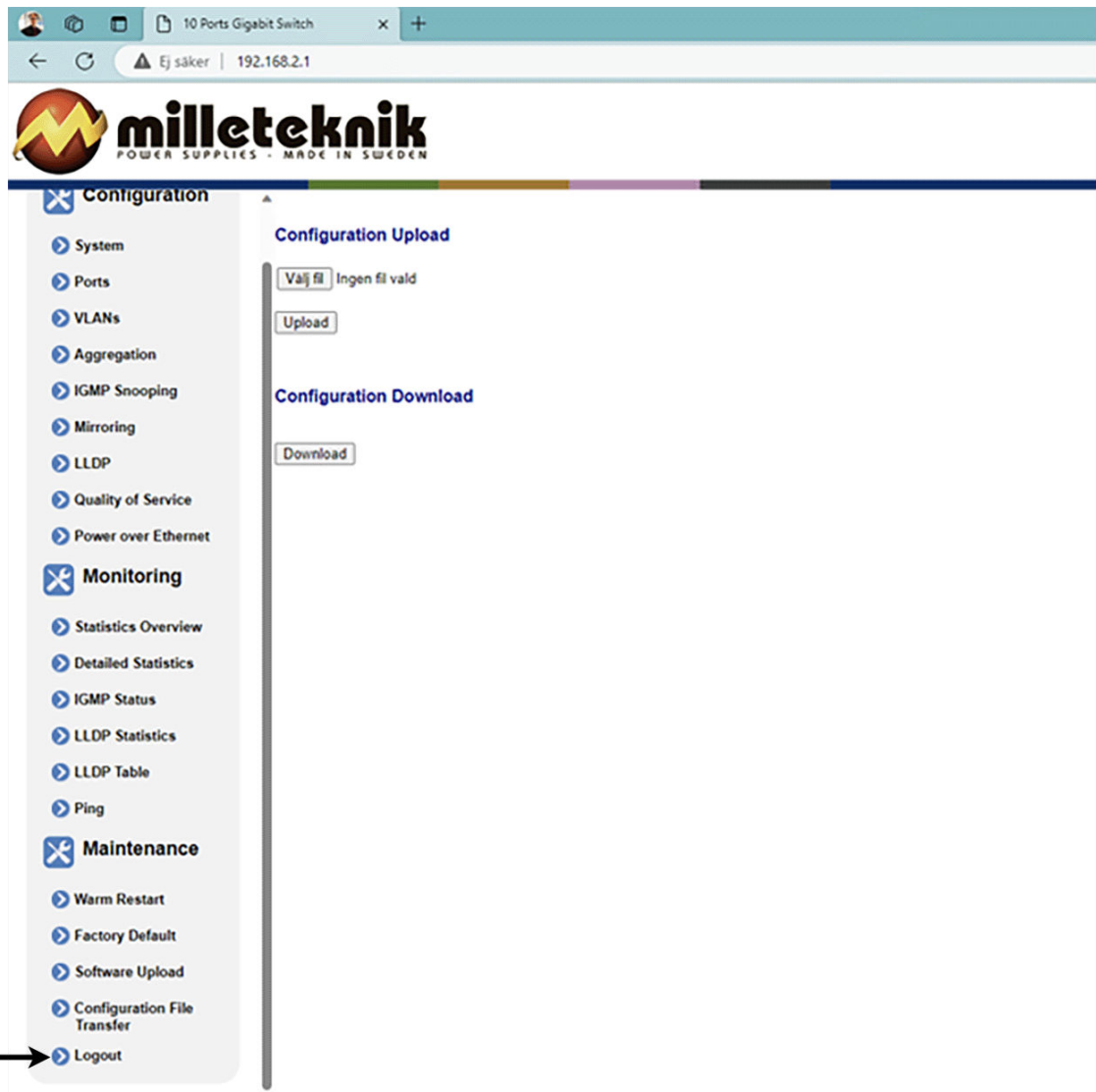


Table 27. Load and save configuration file.

Letter, number	Explanation
S	Upload or download the switch's configuration.
S.1	Select new configuration file.
S.2	Upload new configuration file.
S.3	Download configuration file to computer ^a .

^aNewer Windows computers do not allow *.cfg files to be downloaded without additional approval in the browser when downloading. Antivirus programs may delete the file during download.

Sign out

T: Log out of the switch. This does not affect the operation of the switch.

About this information

All information is published subject to possible errors. Information is updated without prior notice.

Publication date 2026-07-13

Deployment - how to start the device**DANGER**

Personal injury or death can occur if the device is connected to the mains or live when disassembling / moving.

1. Connect load.
2. Connect mains voltage.
3. Plug in mains voltage.

Maintenance

The system with the exception of batteries is maintenance-free when installed in an indoor environment.

Safety Information - Service and Troubleshooting

- If possible, disconnect the mains supply before starting any work, such as servicing, battery replacement, metering or troubleshooting.
- Remove the battery fuse/plug before working on the DC side.
- Check that all cables are properly connected and grounded before re-energizing the unit.
- The product may contain components that become hot during operation. Avoid touching internal parts immediately after the power has been switched off.
- If fuses blow repeatedly see [Troubleshooting \[26\]](#) or disconnect the unit and contact Milleteknik technical support.
- In case of suspicion of damage, liquid ingress or burnt odour, the product must not be used until it has been inspected by qualified personnel.
- During operation, the housing should be closed and locked (if the device has a lock).
- Only authorized service personnel may perform repairs on the device.
- Use only original fuses and batteries of the same type and value as specified in the manual/product sheet.

Milleteknik is not responsible for damage caused by improper handling, modification or unapproved components.

Troubleshooting

If the device does not work as expected, go through the following checks:

Table 28. Troubleshooting power supply without batteries

Trouble	Possible cause	Action
No voltage out.	No mains voltage, fuse triggered, or failure of batteries or battery deep discharge protection has entered.	Check the feed and fuses.
LED flashes.	Information, warning or error.	See panel or manual for explanation.
Fuses blown frequently.	Short circuit or overload.	Check connected devices, change the fuse only after the cause is fixed.
The device gets hot.	High load or insufficient ventilation	Check that the rated current is not exceeded and that air flow is present around the housing.

If the problem persists after these checks, contact Milleteknik support and provide the product name, serial number, and a brief description of the fault.

Table 29. Have the following information on hand when contacting support:

Tasks	Where can I find the task?
Product designation	On the nameplate of the product.
Serial Number	On the nameplate of the product.
Error description.	Briefly describe what has happened and when the error occurs.

Figure 1. Nameplate



The nameplate is located on the device, usually on the outside. The placement may vary depending on the product

Table 30. Contact details

Contact path	Assignment
Telephone	031-340 02 30
E-mail	support@milleteknik.se
Website	www.milleteknik.se/support

Product sheet - power supply / battery backup

Product Sheet

PoE



Product Identification

Table 31. Product designation, part number and email number.

Product designation	Article number	E-number (SE)
PoE Switch 8p PS OUT S	PL02P00048P050P-UTS	51 73 418

Technical description

Power supply to power PoE devices such as surveillance cameras and other PoE powered devices.

PoE switch with eight PoE fed ports and two LAN ports and one sfp port. Power supplies power PoE cards. The device lacks batteries, so backup power in case of power failure is not possible

Table 32. Quick Facts

Quick Facts	
Supply voltage (V)	230V AC, +/- 10%, 47Hz- 63Hz
Voltage out (V)	54.6 V DC, (48 V DC) Batteries not possible to connect to the deviceAlso applicable in battery operation.

Areas of application

Table 33. Areas of application

Areas of application	Yes	No
IP camera, power supply.	✓	
Networked devices that can be powered by PoE.	✓	

Electrical data

Table 34. Electrical data

Electrical data	
Supply voltage	230V AC, +/- 10%, 47Hz- 63Hz
Charge current	Depending on the power outlet.
Efficiency ^a .	93%
Standby consumption	0.5W
Voltage out	54.6 V DC, (48 V DC) Batteries not possible to connect to the deviceAlso applicable in battery operation.
Power (W)	30.8W per port

^a-At rated load.

Load outputs

Table 35. Load outputs

Load outputs	
Number of loading outputs	PoE switch can drive load. Load output to power other applications

Table 36. POE outputs

POE outputs	
Number of PoE ports (RJ-45)	8
PoE budget	240W
POE Budget/Max Power Per Port	! 8 30.8 W.
Number of LAN ports	2
Network ports/interfaces, RJ-45	100 Mbit/s 1000Mbps
Managed	No Yes

Alarm and protection

Table 37. Alarm and protection

Alarm and protection	Yes	No
Overload Protection/Surge Protection	✓	
Over-temperature protection	✓	
Short circuit protection	✓	

Communication and Indications

Table 38. Communication and Indications

Communication and Indications	Yes	No	Other. info.
Communication		x	
Indicators/LEDs	✓	x	

Enclosure and Mechanics

Table 39. Enclosure and Mechanics

Enclosure and Mechanics	
Type	Pole
IP class	IP65
Material	Powder coated sheet metal.Sheet metalFiberglass Reinforced Acrylic Plastic
Colour	Beige
Cable grommets	4 pcs
Knockout hole	1 pc. on the back
Lock	✗
Fan in enclosure	✗

Assembly, installation and eligibility requirements

Table 40. Fitting

Fitting	Yes	No
Pole.	✓	

Table 41. Installation

Installation	Yes	No
Fixed installation.	✓	

Dimensions, weight and packaging information

Table 42. Dimensions

Dimensions, (WxHxD).	Dimensions with packaging ^a .
300 x 250 x 141 mm	515 x 415 x 308 mm

^aDimensions (WxHxD) of product and packaging may differ, this is because the product may be oriented differently in the package.

Table 43. Weight

Net weight	Weight with packaging
5.0 kg	5.4 kg

Table 44. Packaging

Packaging	
Packaging	Cardboard and impact protection in cardboard.
Quantity in pack	1 pc.
Packaging Type (GS1 T0137)	BX box.
Conditions EUR pallet	EUR pallets may not be stacked during transport or storage. Stacking may result in damage to product and packaging
Transport environment	The product must be protected from condensation and direct precipitation during transportation.
Transport temperature (without battery)	-30 °C to +70 °C
Storage environment	Dry indoor environment, protected from condensation. Relative humidity: max 95%, non-condensing
Storage temperature without batteries	-20 °C to +60 °C

Fits

Table 45. Bracket suitable for device

Accessories	OUT S	OUT M	OUT L
Wall Bracket	✓ (Included)	✓ (Included)	✓ (Included)
Pole Mount: Pole Mount Kit for UT S and UT M	✓ (Included)	✓ (Included)	✗
Sun Protection, Sun Shield Kit ^a	✓	✓	✓

^aMounted directly on pole and does not depend on enclosure.

Contact

Table 46. Contact

Department	
Switchboard	031-340 02 30
Support and technical issues	support@milleteknik.se
Sales	sales@milleteknik.se
WWW	www.milleteknik.se
Address	Ögärdesvägen 8B, 433 30 Partille

About this information

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Publication date 2026-07-13

Compliance and regulatory compliance

Delivery time, warranty and terms

Table 47. Delivery time, warranty and terms

Delivery time, warranty and terms	
Warranty period ^a	The product has a two (2) year warranty against manufacturing defects. In addition to the regular warranty period, an additional three (3) year warranty can be purchased.
Special warranty conditions	Components manufactured by manufacturers other than Milleteknik are not covered by Milleteknik's warranty. See also general terms and conditions.
General Terms and Conditions	ALEM09 with exceptions, see: www.milleteknik.se/conditions/
Support	Telephone support and email support during the warranty period are free of charge. For spare parts that are not covered by warranty, there is a charge
Delivery and stock	
Delivery time ^b	Or as per agreement. Delivery from factory, transportation time is added.

^aIf the device is purchased through a wholesaler or other supplier, other warranty conditions may apply.

^bIn the case of larger orders, delivery time increases, acc. to agreement.

Operation and maintenance

Table 48. Operation

Operation	Data	Other. info
Environment	Outdoor Class 3.	
Operating temperature (permissible) ^a	-25°C to +50°C	Class 3 according to EN 50131-6/ EN 60839-11
Load, power supply	80%	Average load shall not exceed 80% of the rated capacity of the power supply.

^aSpecifies the permissible ambient temperature range in which the product can operate without damage. See also table on battery life.

Table 49. Maintenance

Yes	No	Interval	Other. info
	✓		Maintenance-free.

Certifications and approvals

Table 50. Approved according to

Complies with	Directives
PoE	IEEE 802.3af, IEEE 802.3at/30.8 W. Note that 802.3at type2 is not supported, as the PoE card does not have a type 2 handshake function.
Emissions	BS EN/EN55032 (CISPR32) Klasse B, BS EN/EN61000-3-2, -3, EAC TP TC 020, CNS13438, GB9254 Klasse B, GB17625.1
Immunity	EN61000-6-2:2005, EN61000-4-2, -3, 4, -5, -6, -11 SS-EN 50130-4:2011 Edition 2, EN50131-6

Complies with	Directives
C.E.	CE marking according to Regulation (EC) No 765/2008
RoHS	RoHS Directive 2011/65/EU, including amendment (EU) 2015/863
EMC	EMC Directive 2014/30/EU
Electric (LVD)	Low Voltage Directive 2014/35/EU

Environmental data

Table 51. Environmental data

Environmental data	J/N	Informație	Other. info.
Building Product Declaration (BPD)	✓	Yes, see iBvd at www.milleteknik.se .	-
REACH Information Obligation (EC) No 1907/2006	✓	Yes, see the DoC at www.milleteknik.se The product complies with REACH Regulation (EC) No 1907/2006.	If empty, the product is not covered.
SVHC substances, CAS/EC	✓	Yes, lead, 7439-92-1/231-100-4	For text, see iBvd at www.milleteknik.se . If blank, substance is missing.
Subject to the RoHS Directive, (EU) 2015/863)	✓	Yes, see the DoC at www.milleteknik.se	
WEEE 2012/19/EU	✓	The product contains electrical components or wiring and is covered by the WEEE Directive (2012/19/EU).	If empty, the product is not covered. End-of-life products must be returned to a recycling centre
Battery Regulation (EU) 2023/1542	x		
SCIP No 2008/98/EC	✓	Yes, registered under the EU Waste Directive where applicable, (2008/98/EC).	If empty, no SCIP number is needed.
Conflict minerals (EU) 2017/821	x/x/x/x/✓	No=Gold, Tungsten, Tantalum, Cobalt. Yes=Tin	Tin in solders in printed circuit boards purchased through a Swedish supplier.
Contains nanomaterials: EC 1272/2008	x	The product does not contain nanomaterials.	
Ecodesign 2009/125/EC	Milleteknik's products are intended for professional use and are therefore not directly covered by the Ecodesign Regulation (EU 2019/1782). As some components may be covered, we nevertheless disclose relevant information ^a , where applicable, to provide our customers with confidence in their choice.		
Machine Directive 2006/42/EC	The product is part of electrical systems, is subject to the relevant electrical and safety directives and is not a machine according to the Machinery Directive (2006/42/EC). Will be replaced by Machinery Regulation (EU) 2023/1230, which will apply in 2027.		
The product is designed for a long service life, which reduces the environmental impact. End-of-life products are handed over to the nearest recycling centre.			

^a Standby consumption and power.



Manufacturer and country of origin

Table 52. Manufacturer and country of origin

Manufacturer ^a	Milleteknik AB
Customs State. Nos.	85044095 ^b
Country of origin	Sweden

^a Manufacturer is the trademark indicated on the product, regardless of what is stated in this product sheet.

^b Verify with the Customs Ombud/Customs Service for export/import; alternative classification 85044055 may become applicable if the product is assessed as a battery charger.

Appendix

Eligibility requirements, installation

Eligibility requirements vary between countries. The table summarizes national requirements for fixed installation and connection of equipment with a plug socket, respectively.

Options on the secondary side of the product, such as 12 V, 24 V or 48 V DC, are connected according to the respective instructions. Work on the network connection of the product shall be carried out in accordance with national eligibility requirements

Table 53. Eligibility requirements by country. Applies only to the installation of this product in a fixed network connection

Permission Requirements for Installation	Fixed installation (230 V)	Plug	Other. info
Sweden	✓	✗	Fixed installation may be performed by technicians but shall be under the responsibility of a qualified installer. (Electrical Safety Act, SS 436 40 00) Plug may be connected without authorization.
Norway	✓	✓	Requirements for qualified electricians also for equipment with a plug socket in fixed installations. (NEK 400, DSB)
Finland	✓	✗	Plug may be connected without authorization. (Tukes, SFS 6000)
Denmark	✓	✗	Plug may be connected without authorization. (Safety Board)
Germany	✓	✗	All fixed installations require a qualified electrician according to VDE 0100. Plug sockets may be connected without authorization, but only by person with basic electrical knowledge ("Elektro-technisch unterwiesene Person")

Miscellaneous

The difference between PoE, PoE+ and PoE++.

Table 54. Max power PoE.

-	PoE	Poe+	PoE++
Compatible ^a	-	PoE	PoE, PoE+
Official name	IEEE 802.3af	IEEE 802.3at	IEEE 802.3bt
Maximum power	13 W	25 W	71 W

^aThe power supply follows "up", but not "down". A PoE can never power a PoE+/PoE++ device that requires more than 13 W.

Reference table: environmental classes according to EN 50130-5 (referred to in EN 50131-6)

Table 55. Reference table: environmental classes according to EN 50130-5 (referred to in EN 50131-6)

Class	Type	Temperature range
Environmental Class 1	Heated indoors (type office/residence).	+5°C to +40°C
Environmental Class 2	Generally indoors (type warehouses/stairwells, not temperature controlled).	-10°C to +40°C
Environmental class 3	Protected outdoors.	-25°C to +50°C
Environmental class 4	Generally outdoors.	-25°C to +60°C

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