



# Minoston Meter MP21ZP Meter Switch User Manual

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**Minoston Meter MP21ZP Meter Switch**



## Product Information

Item	Power Supply	Signal(Frequency)	Operating Temperature Range	Generic Type	Specific Type
Meter Switch User Manual					

## Product Usage Instructions

### Button Function Description

1. Add or Remove the device
  1. Press the button three times to add or remove the device into the network.
  2. press 3x Button : Add/Include or Remove/Exclude the device into network.
2. Factory Reset
  1. press twice and then press and hold the button for about 10 seconds until the BLUE indicator flashes.

### Factory Reset

Press the button twice and then press and hold the button for about 10 seconds until the BLUE indicator flashes.

### Adding Your Device To Hub

### Network Wide Inclusion To A Z-Wave Network

Refer to your primary controller instructions to process the inclusion/exclusion setup procedure. When prompted by your primary controller, click the z-wave button three times.

- The device support two methods of inclusion, When using a Z-Wave Plus™ certified controller choose Network Wide Inclusion or Smart Start.
- Network Wide Inclusion To A Z-Wave™ Network
  - Refer to your primary controller instructions to process the inclusion/exclusion setup procedure.
  - When prompted by your primary controller, click the z-wave button three times.

- **The device is compatible with Smart Start.**

Smart Start enabled products can be added into a Z-Wave™ network by scanning the Z-Wave QR Code found

on the top of the outlet or the back of the box with a controller providing Smart Start inclusion. No further action is required and the Smart Start product will be added automatically within 10 minutes of being switched on and in the network vicinity.

### Smart Start Inclusion

The device is compatible with Smart Start. Smart Start enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code found on the top of the outlet or the back of the box with a controller providing Smart Start inclusion. No further action is required and the Smart Start product will be added automatically within 10 minutes of being switched on and in the network vicinity.

### Command Class

The device supports the following command classes:

- Z-Wave Plus Info
- Security 2
- Supervision
- Transport Service
- Basic
- Association
- Multi Channel Association
- Manufacturer Specific
- Device Reset Locally
- Power Level Indicator
- Firmware Update Meta Data
- Configuration
- Notification
- Meter Switch Binary

Command Class Name	Version	Required Security Class
Z-Wave Plus Info	V2	none
Security 2	V1	none
Supervision	V1	none
Transport Service	V2	none
Basic	V2	highest granted
Association	V2	highest granted
Association Group Information	V3	highest granted

Command Class Name	Version	Required Security Class
Multi Channel Association	V3	highest granted
Version	V3	highest granted
Manufacturer Specific	V2	highest granted
Device Reset Locally	V1	highest granted
Power Level	V1	highest granted
Indicator	V3	highest granted
Firmware Update Meta Data	V5	highest granted
Configuration	V4	highest granted
Notification	V8	highest granted
Meter	V5	highest granted
Switch Binary	V2	highest granted

#### Association Group Information

Command Class Name	Version	Required Security Class
Z-Wave Plus Info	V2	none
Security 2	V1	none
Supervision	V1	none
Transport Service	V2	none
Basic	V2	highest granted
Association	V2	highest granted
Multi Channel Association	V3	highest granted

#### Meter Information

Type	Base Type	Scale	Precision	Overload Threshold
Current	Electric	A	2	16.5A
Voltage	Electric	V	2	135.0V
Power	Electric	W	1	2000W
Electricity	Electric	KWH	3	

#### Indicator Command Class

The indicator (blue color) will flash according to the indicator set command received from HUB.

Indicator ID	Property ID
0x50 (NODE IDENTIFY)	0x03(ON OFF PERIOD)
0x50 (NODE IDENTIFY)	0x04(ON OFF CYCLES)
0x50 (NODE IDENTIFY)	0x05(ONE TIME ON OFF PERIOD)

## Association Group

ID	Name	Node Count	Profile	Function
1	Lifeline	5	General: Lifeline	Device Reset Locally Notification: Issued when Factory Reset is performed. Indicator Report: Issued when included successfully. Switch Binary Report: Issued when output status is changed. Notification: Issued when current, voltage or power is overload. Meter report: Issued when current, voltage or power is overflow the threshold.
2	Basic Set	5	Control: Key 1	Basic Set : Issued when local state is changed

## Configuration Parameters

Number	Name	Information
1	Reaction of led	

Number	Name	Information	Size	MIN	MAX	Default	Value Description
1	Reaction of led	Change the reaction of the indicator.	1 byte	0	3	0	0 - On when On and Off when Off 1 - On when Off and Off when On 2 - Always Off 3 - Always On
2	Auto Turn Off	Minutes for turn off automatically.	4 bytes	0	65535	0	0-Disable 1- 1 minute ... 65535-65535minutes
3	Auto Turn On	Minutes for turn on automatically.	4 bytes	0	65535	0	0-Disable 1- 1 minute ... 65535-65535minutes
4	Status Restore	Restore status after power failure.	1 bytes	0	2	0	0 - restore last state 1- Always off 2 - Always on
5	Report threshold of power	Threshold for power report(W).	1 byte	5	50	5	5 - 5W ... 50 - 50W
6	Report frequency of power	Interval minutes after last report of power..	4 bytes	1	65535	5	1- 1minute 2- 2minutes ... 65535 - 65535minutes
7	Report threshold of currents	Threshold for currents report(x0.1A).	1 byte	1	10	1	1 - 100mA 2- 200mA ... 10 - 1A
8	Report threshold of electricity	Threshold for electricity report(x0.01KWH).	1 byte	1	100	1	1 - 0.01KWH 2 - 0.02KWH ... 100 - 1KWH
9	Indicator brightness	Setting indicator's brightness.	1 byte	0	2	2	0 - High level 1 - Mid level 2 - Low level
10	Disable power report	Enable or disable power report.	1 byte	0	1	0	0 - Enable power report 1 - Disable power report
11	Disable currents report	Enable or disable currents report.	1 byte	0	1	0	0 - Enable power report 1 - Disable power report
12	Report frequency of currents	Interval minutes after last report of currents.	4 bytes	1	65535	60	1- 1minute 2- 2minutes ... 65535 - 65535minutes
Number	Name	Information	Size	MIN	MAX	Default	Value Description
13	Report frequency of voltage	Interval minutes after last report of voltage.	4 bytes	0	65535	60	0 - Disable report 1- 1minute 2- 2minutes ... 65535 - 65535minutes

## Specifications

ITEM	INFORMATION
Power Supply	AC 120V 60HZ
Signal(Frequency)	908.42MHz
Operating Temperature Range	5-104° F (-10-40° C)
GENERIC_TYPE	GENERIC_TYPE_SWITCH_BINARY(0x10)
SPECIFIC_TYPE	SPECIFIC_TYPE_NOT_USED(0x00)

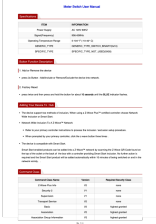
Notification

Type	Event
Power Management(0x08)	Over Current Detected(0x06)
Power Management(0x08)	Over Voltage Detected(0x07)
Power Management(0x08)	Over Loaded Detected(0x08)

Meter

Base Type	Type	Scale	Precision	Overload Threshold
Electric	Current	A	2	16.5A
Electric	Voltage	V	2	135.0V
Electric	Power	W	1	2000W
Electric	Electricity	KWH	3	---

Documents / Resources



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MP21ZP Meter Switch, MP21ZP, Meter Switch, Switch