

P2M Node 24 DO

P2M2HBVN12400



USER MANUAL



**Important !**

Before carrying out any service work, ensure that the valve and manifold have been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.

**NB !**

All technical data in this catalogue is typical only. The air quality is decisive for the valve life: see ISO 8573.

**WARNING**

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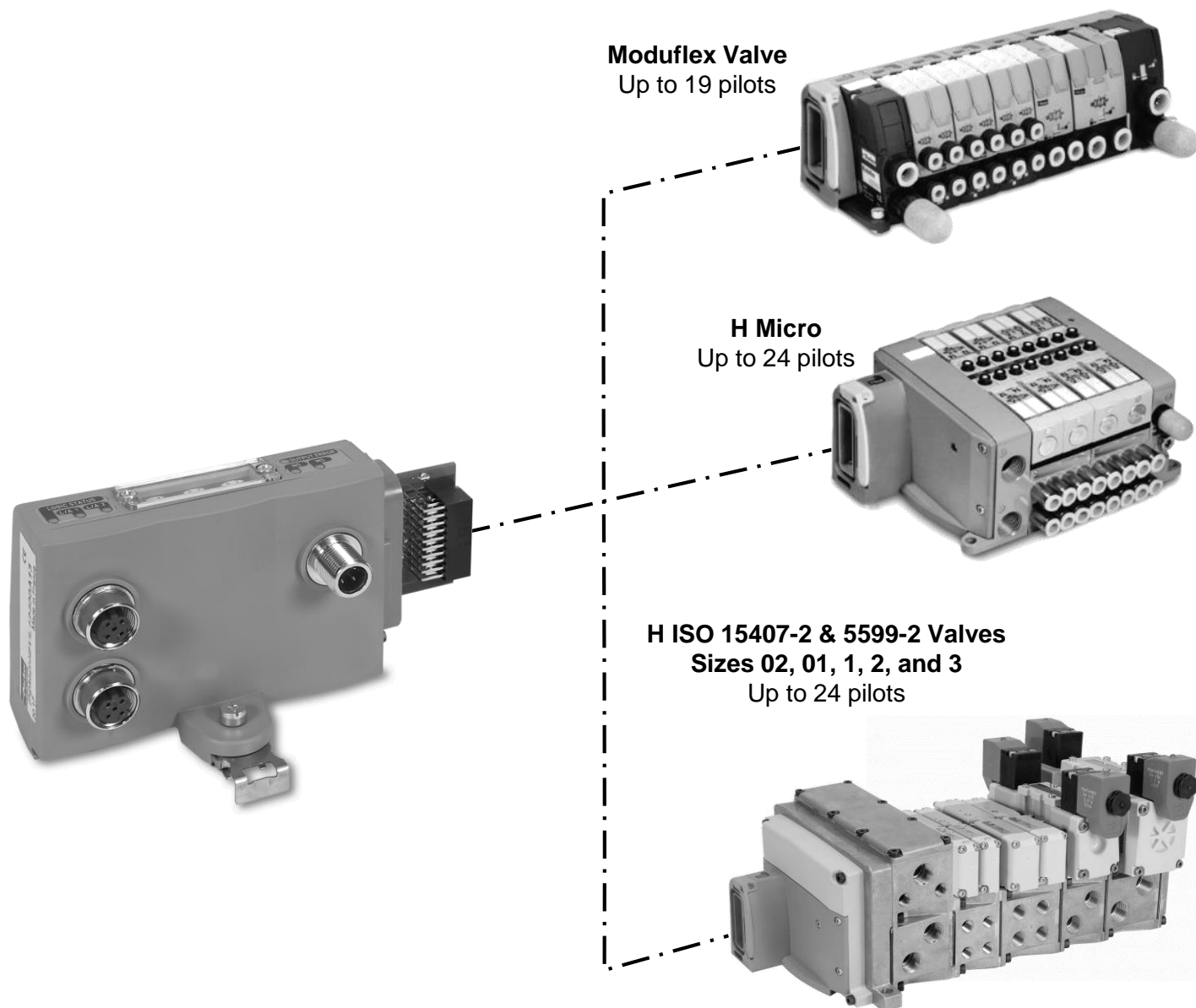
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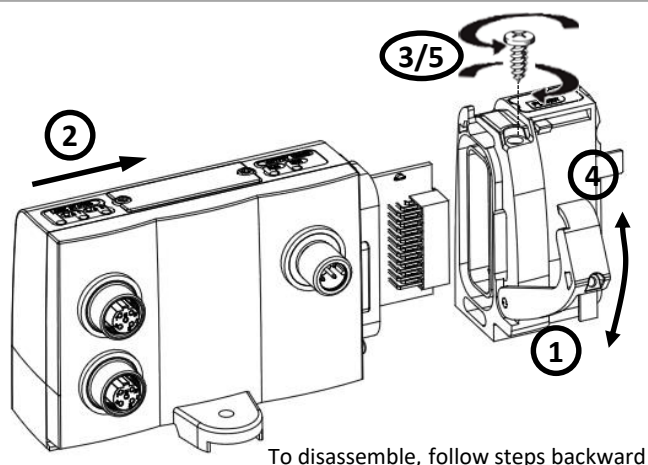
Product general overview

Purpose of the P2M Node 24 DO

The P2M Node 24DO can be used with either the Moduflex Valve System, H Micro or H ISO 15407-2 and 5599-2 Valves Series. Depending on the valve series the module is connected to, it can control up to 24 pilot solenoid valves, as shown on the illustration below:



Module assembly / disassembly



For details on appropriate valve adaptor to use, please refer to the respective valve series technical catalogue and instruction sheets.

Technical Data

P2M Node 24DO electrical specifications

Description	Value
Network power supply	According to PROFINET standard
Speed communication	According to PROFINET standard
PROFINET Fast Start-Up (FSU)	Supported
Auxiliary power supply	Voltage 20,4 Vdc to 26,4 Vdc
	Current limit per channel 150 mA
	Max. current limit 2 A
Polarity inversion protection	YES
Short circuit protection	YES
Operating temperature	0°C to +55°C
Storage temperature	-25°C to +70°C
Shock	According to IEC 60068-2-27:2008
Vibration	According to IEC 60068-2-6:2007
EMC	According to EN 55011 & EN 61000-4-2 up to -4-6

Auxiliary power consumption calculation

Depending on the valve range the module is connected to, the pilot solenoids differ in power consumption. In order to determine the minimum required power to supply, the table below may be used:

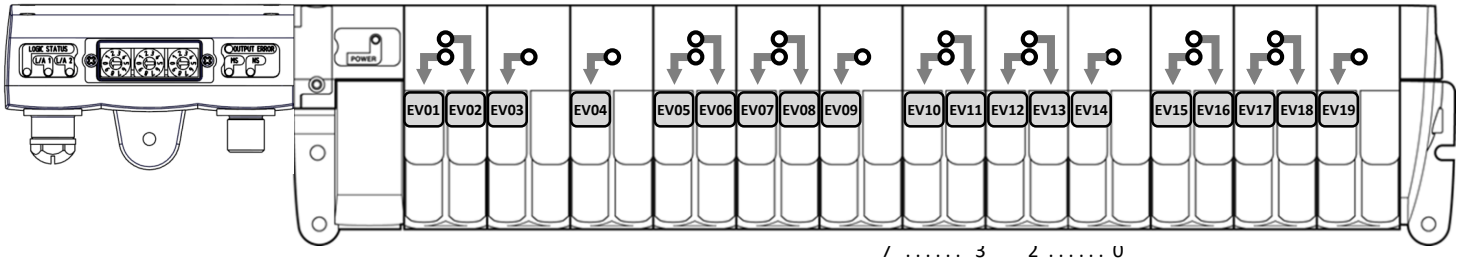
Valve Range	Number of Pilots simultaneously powered	Power	Total
Moduflex Valve System		x 40 mA	mA
H Micro		x 40 mA	mA
H ISO - 15407-2 - Sizes 02 & 01		x 40 mA	mA
H ISO - 5599 - Sizes 1, 2 & 3 (Energy Efficiency Coils)		x 54 mA	mA
H ISO - 5599-2 - Sizes 1, 2 & 3 (Standard Coils)		x 133 mA	mA
Total :			mA

NOTE: it is recommended that the total outputs current consumption does not exceed 2A

Solenoid Pilots addressing and Process Data mapping

P2M Node 24DO addressing used with Moduflex Valve System

The P2M Node 24DO used with Moduflex Valve System can handle up to 19 pilot solenoid valves. Addressing is as shown below:



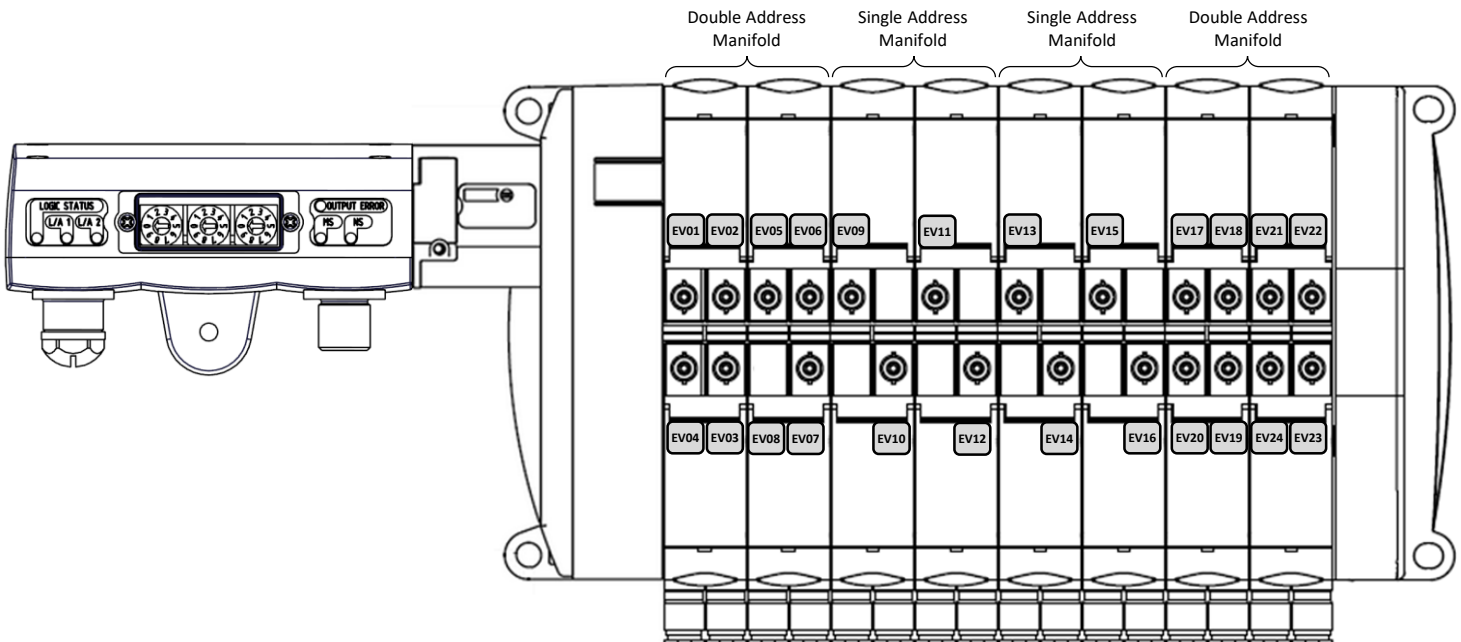
PLC Process outputs data mapping

Byte 1	EV08 EV01
Byte 2	EV16 EV09
Byte 3*	EV24 EV20 EV19 ... EV17

* Byte 3 / Bits 3 to 7 are not connected to valves with Moduflex Valve Range

P2M Node 24DO addressing used with H Micro Valve Series

The P2M Node 24DO used with H Micro Valve Series can handle up to 24 pilot solenoid valves. Addressing is as shown below:

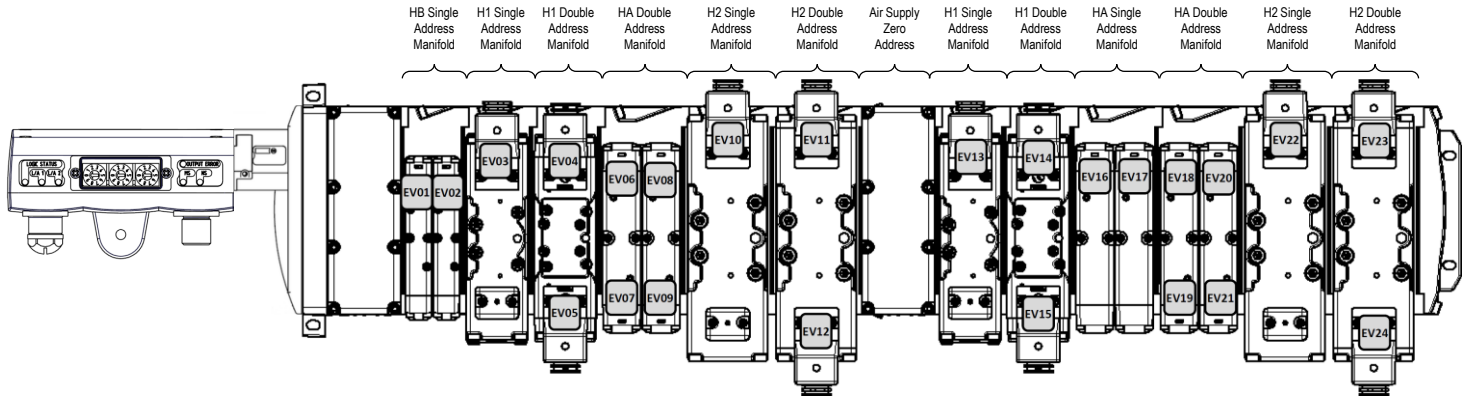


PLC Process outputs data mapping

Byte 1	EV08 EV01
Byte 2	EV16 EV09
Byte 3	EV24 EV17

P2M Node 24DO addressing used with H Universal ISO Series – 15407-2 & 5599-2

The P2M Node 24DO used with H ISO Series – 15407-2 – sizes 02 & 01 and 5599-2 – sizes 1, 2 & 3 – can handle up to 24 pilot solenoid valves. Addressing is as shown below (on H Universal manifold):



PLC Process outputs data mapping

	7	.....	0
Byte 1	EV08	.....	EV01
Byte 2	EV16	.....	EV09
Byte 3	EV24	.....	EV17

P2M Node 24DO Electrical Connections

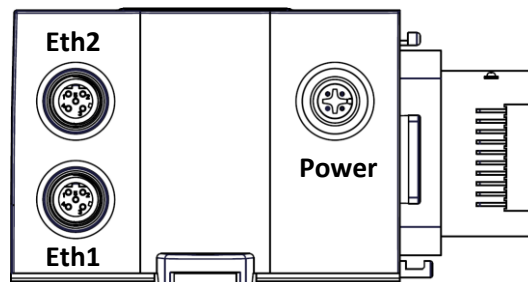
Network Communication and Auxiliary power connection

Network Communication: Standard Female M12 D-Coded connectors – 4 pins

Auxiliary Power Supply: Standard Male M12 A-Coded connector – 4 pins

Use of standard manufactured cables available from usual electrical supplier is recommended.

Network In & Out M12 D-Coded		
	PIN #	Description
	1	TxData +
	2	RxData +
	3	TxData -
	4	RxData -



Auxiliary Power M12 A-Coded		
	PIN #	Description
	1	Logic Power +
	2	AUX Power -
	3	Logic Power -
	4	AUX Power +



P2M Node 24DO connected to SAFE power supply for Auxiliary Power

The P2M Node 24DO Auxiliary Power for valves can be supplied from a SAFE 24Vdc auxiliary source in PP or PM mode, as well as from Output Switching Signals Device Failsafe Digital Outputs (OSSD FDO).

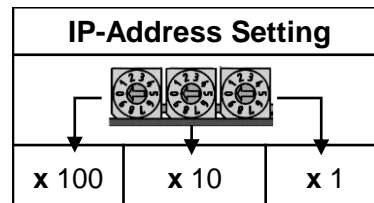
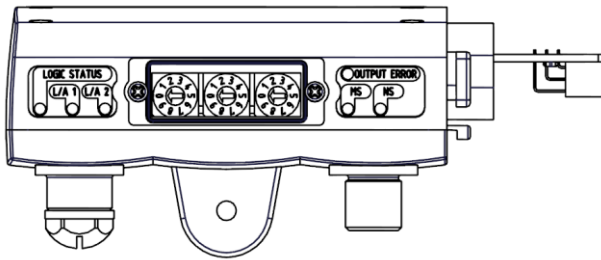
Note : Please check max. power available from the source. Refer to the “Auxiliary power consumption calculation” section

IP-Address Setting

The IP-Address of the device can be assigned via:

- Rotary Switches, DHCP , Web page, Ipconfig Tool or TCP/IP Interface Object.


At power-up the P2M Node 24DO reads the values of the rotary switches and determines how the device obtains its IP-Address. Please refer to the table below for further details. The device comes from the factory with assigned **192.168.1.2**.



IP Switch Setting	Description
000	IP-Address setting is stored into the NV-memory of the P2M node
001 – 254	IP-Address setting is determined by the 3 rotary switches: <ul style="list-style-type: none"> • IP Address: 192.168.1.xxx • Subnet Mask: 255.255.255.0 • Default Gateway for 001: 192.168.1.2 • Default Gateway for 002 - 254: 192.168.1.1
888	The device obtains its address via DHCP
999	Reset to Factory Status
All others	Invalid. The Module will not start (see Local Visual Diagnostic section for details)

Reset to Factory Status

The “Reset to Factory” restores all the parameters, counters, password and configurations to their default values.

The “Reset to Factory” can be performed either via web page through the button  accessible via the “Parameter” tab on the webserver, or via hardware through the rotary switches setting “999”. Once the reset is completed and all the values are restored to default values, the module signals the completed operation by quickly flashing red/green the “Logic Status” LED.

If the reset is performed via hardware, a valid IP-Address must be set and a power cycle is required to restart to normal operations.

P2M Node Configuration File

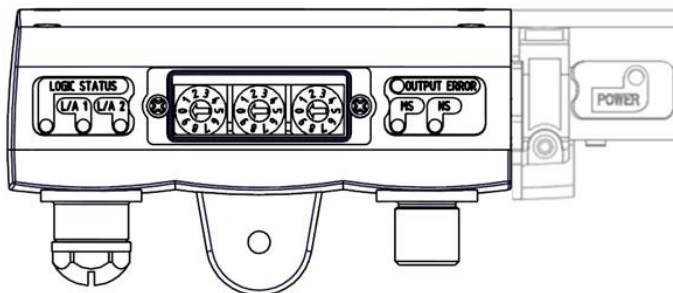
The configuration files and integration tools are available for download from the P2M Node 24DO web site:

- www.parker.com/pde/P2M_IE

Local Visual Diagnostic

The P2M Node 24DO module offers local diagnostics through 6 LED's status with interpretation described in the table below:

LOGIC STATUS Green / Red LED			L/A 1 L/A 2 Green LEDs			OUTPUT ERROR Red LED			MS Green / Red LED		
LED Status	Description	Troubleshooting	LED Status	Description	Troubleshooting	LED Status	Description	Troubleshooting	LED Status	Description	Troubleshooting
OFF ●	Logic lines not powered	Check power supply (pin's 1 & 3 on Power M-12)	OFF ●	Not linked to the Network	Check connection to the Network	OFF ●	Standard mode (No error active)	N/A	OFF ●	Module off line or not powered	Check power supply and connection to the Network
ON GREEN ○	Logic Power OK	N/A	ON ○	Link with Ethernet Network established. No communication present	Check Network status and parameters	ON ●	One (or more) active "Outputs stage failure"	Check diagnostic message through the Network and relative troubleshooting	ON GREEN ○	Module online, connection with controller established and in RUN mode	N/A
ON RED ●	Presence of any fault requiring acknowledge	N/A	Blinking GREEN ✱	Link established and communication active	N/A				1 GREEN Flash ✱	Module online, connection with controller established and in STOP mode	N/A
Blinking RED ✱	Invalid rotary switch setting	Check rotary switch setting							Blinking GREEN ✱	Flashing. Used by engineering tool for identifying the module	N/A
Blinking G/R ●/○	Firmware version error completed "Reset to Factory"	If switches setting different from "999" and no "Reset to Factory" performed via webpage, then contact assistance or change the module							ON RED ●	Fatal Event, major internal error. (Combined with red MS LED)	Change the module
									1 RED Flash ✱	Station Name not set	Set station name
									2 RED Flash ✱	IP-Address error or IP Address not set	Set IP-Address
									3 RED Flash ✱	Configuration Error. Expected identification differs from actual identification	Check station settings



Diagnostic through network via Object #9 – "Module Error Input"

The P2M Node 24DO module offers diagnostic data transmitted to the PLC as Process Data Input or via the Application Device Instance (Object) #9:

Obj	Instance Name	Data Type	Access	Byte 0	Diag 7 Diag 0
#9	Module Error Input	UINT16	Read	Byte 1	Reserved

Bit #	Error Name	Error Description
Diag 0	Ack-Required	Set if any major fault active. Outputs are switched OFF and acknowledge is required to restart the module to normal operation
Diag 1	Auxiliary Voltage Warning	Set if Auxiliary Voltage in warning range. Module keeps normal operation
Diag 2	Auxiliary Voltage Failure	Auxiliary Voltage in Error range. Outputs are switched OFF and acknowledge is required to restart the module to normal operation
Diag 3	Temperature Warning	Set if a temperature increase above warning levels is detected by the output drivers
Diag 4	Output Driver Channel Error	Set if a major fault is detected at the output stage – solenoid short circuit. Outputs are switched OFF and acknowledge is required to restart the module to normal operation
Diag 5	Module Error	Set if an internal communication error is active. Depending on the fault the module might require acknowledgment.
Diag 6	Outputs Stage Not Available	Set if auxiliary power is missing. No acknowledge is required
Diag 7-15	Reserved	These bits will be always set as 0

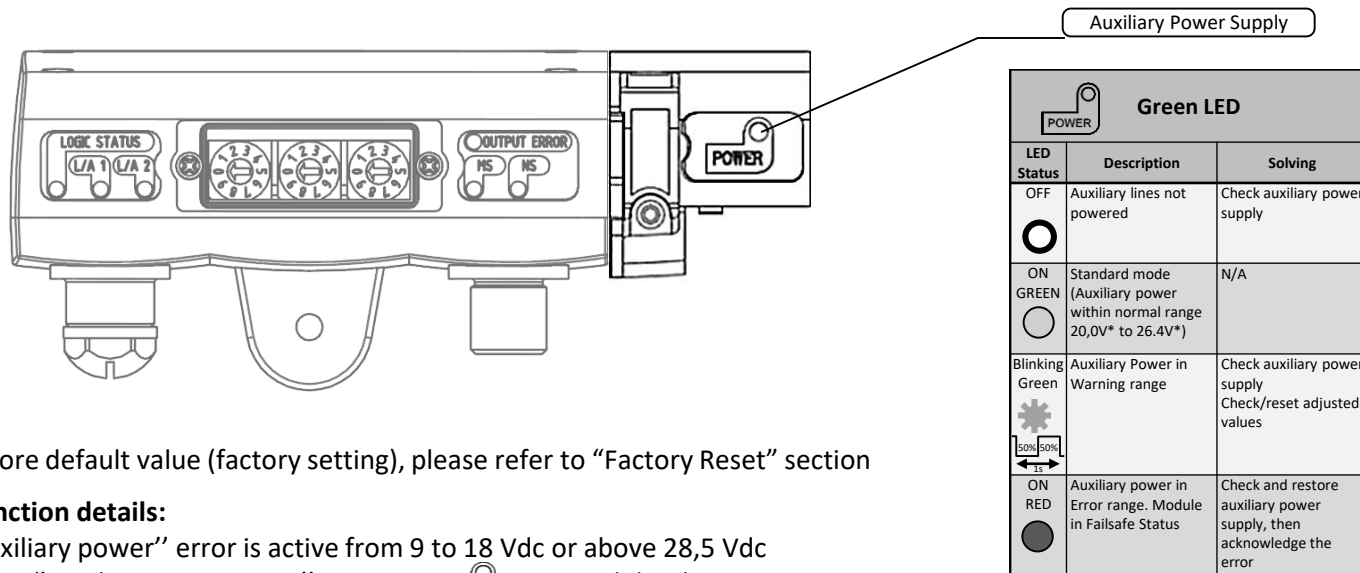
NOTE: Errors caused by solenoid(s) must be fixed first and then the error must be acknowledged by:

- switching OFF/ON Auxiliary power supply (once error is fixed)
- sending the "Acknowledge Error" command ****SEE Object#8**

Auxiliary Power Management


Power supply diagnostic through LED

The P2M Node 24DO monitors the auxiliary power supply voltage and manages two levels of diagnostics; warning and error range. The normal range can be modified through parameter data.



To restore default value (factory setting), please refer to “Factory Reset” section

LED function details:

- “Auxiliary power” error is active from 9 to 18 Vdc or above 28,5 Vdc
- When “Auxiliary power error” is active,  LED is solid red

* Warning level values could have been modified by the user! Default values can be restored at any time (please refer to "Aux power management" section)

Power supply diagnostic through Network and Process Data mapping



- Diag 1 : Auxiliary voltage in Warning range. The limits of the Warning range can be adjusted via Object #11 and Object #12
- Diag 2 : Auxiliary voltage failure. < 18 Vdc or > 28,5 Vdc. Module goes into Failsafe Status. Acknowledge is required to restart the module

Auxiliary Voltage Reading

The auxiliary voltage measured by the module can be accessed via the Object #4. The displayed value is in mV.

Obj	Data Type	Access	Name	Min Value	Max Value	Default
#04	UINT16	Read	AUX Voltage	0	36300	N/A

Auxiliary power supply range adjustment - Object #11 and #12

Normal auxiliary power supply range is set as 20,0Vdc < Aux power supply < 26,4Vdc

The low and high limits of the Voltage Warning levels are adjustable via Objects #11 and #12.

Values shown in mV.

Obj	Data Type	Access	Name	Min Value	Max Value	Default
#11	UINT16	Read / Write	AUX Voltage Warning Low Limit	18000	24000	20000
#12	UINT16	Read / Write	AUX Voltage Warning High Limit	24000	28500	26400

Process Data Outputs

Object #01 - Solenoids

The Object #01 contains the process output data to the valves. A value of 1 assigned to a bit in the Object #01 indicates that the associated solenoid shall be energized, whereas zero indicates that the power at the solenoid shall be off.

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#01	Array of bits (8)	3	Read / Write	OUT Data	0	0xFF 0xFF 0xFF	0

The 24 solenoids are represented by one bit each, where the LSB (Least Significant Bit) is associated with Solenoid-1 and the MSB (Most Significant Bit) is associated with Solenoid-24.

Byte	3				2	1			
Bit #	23 (MSB)	22	21	...	...	...	2	1	0 (LSB)
Example Output Data	1	0	1	...	...	...	0	1	0
Controlled Output	Out_23 HIGH	Out_22 LOW	Out_21 HIGH	...	...	...	Out_2 LOW	Out_1 HIGH	Out_0 LOW
Solenoid Energized	Solenoid_24 ON	Solenoid_23 OFF	Solenoid_22 ON	...	...	...	Solenoid_3 OFF	Solenoid_2 ON	Solenoid_1 OFF

Object #08 – System Commands

The Object #08 contains the “System Command Byte”. This byte is used for specific functions; such as “Leave Failsafe / Error Acknowledgment” and others detailed in the table below. In order to execute the desired function the specific value associated with the command has to be written in the Object #08.

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#08	UINT8	1	Read / Write	System Command	0	0xFF	0

The System Command Byte supports the commands as defined in the table below.

Command Value	Command Name	Description
0x01	Leave Failsafe State (Acknowledge Error)	<p>This command allows the module to leave failsafe state* (acknowledge error). Meaning that, if no error is pending at the time the Leave Failsafe State command is executed, then the device returns to normal operation and the outputs are set according to process data.</p> <p>* If Failsafe state is reached, then it is not automatically left if the error conditions are no longer existent.</p>
0x02	Store Switching Cycle Counters	<p>When this command is executed, the current values of the switching cycle counters are stored into EEPROM. This command is intended to be used before powering off the device.</p>

Status / Diagnostic Data and Parameters

Object #02 – Switching Cycles Counters

The Object #02 contains the 24 switching cycle counters for the valves. The counter values are automatically stored by the module every 30 minutes.

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#02	Array of UINT32	24	Read	Switching Cycle Counters	0	*	0

* Max value for Object #2 is circa 4,3 billion (UINT32 max representable value). Once that the max value is reached, this is held in memory and additional cycles are not counted.

Object #03 – Clear Switching Cycles Counters

The Object #03 allows the switching cycle counter for the solenoids to be reset to zero. The counter for each solenoid can be reset individually by setting the associated bit on the Object #03 – i.e.: for each bit set to 1 in the Object #03, the associated counter is set to zero.

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#03	Array of bits (8)	3	Read */ Write	Clear Switching Cycle Counters	0	0xFF 0xFF 0xFF	0

* The Read service for this Object always returns all zeros.

Object #04 – AUX Voltage Value

The Object #04 contains the measured value of the Auxiliary Voltage

Values shown in mV

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#04	UINT16	1	Read	AUX Voltage	0	36300	N/A

Object #06 – Channel Error

In case an error occurs in the outputs stage (e.g.: short circuit or over-temperature), the Object #06 provides information about which channel caused the error. The bits corresponding to the outputs that caused the fault are set to 1 in the Object #6.

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#06	Array of bits (8)	3	Read	Channel Error	0x000000	0xFF 0xFF 0xFF	0x000000

Object #07 – Module Info Flag

The Object #07 contains information about possible module states and faults / errors that might affect the module. The faults identified in the module error flag are not recoverable; therefore a power cycle is required to clear them. If the faults are still present following a power cycle the module has to be replaced. The message headers and flag definitions associated with each bit in the Object are detailed in the table (see next page).

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#07	UINT16	1	Read	Module Info Flags	0	0xFF 0xFF	0

Status / Diagnostic Data and Parameters

Object #07 – Module Info Flags (Continued)

Bit #	Module Error Header	Fault Description
0	Watchdog Valve μ C	Set if the watchdog caused the last reset of the output stage
1	EEPROM Error	Set if any of the (expected) data stored in the EEPROM has been detected as not-valid
2-7	Reserved	
8	Watchdog COM μ C	Set if the watchdog caused the last reset of the communication stage
9	Heartbeat Not Toggling	Heartbeat is currently not toggling whilst it should
10	Heartbeat State	Used to troubleshoot the cause of the "Heartbeat Not Toggling" error
11-15	Reserved	

Object #09 – Module Error Input

The Object #09 contains user-friendly diagnostics (in case of errors or faults) provided as Process Data Input.

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#09	UINT16	1	Read	Module Error Input	0	0xFF 0xFF	0

Bit #	Module Error Header	Fault Description
0	Ack Required	Set if a major fault requiring acknowledgment is detected. All outputs are set to 0. If this bit is set, then a "Leave Failsafe Command" is required to restart the module.
1	AUX Voltage Warning	Set if the Auxiliary Voltage is outside Normal range and within Warning range.
2	AUX Voltage Error	Set if the Auxiliary Voltage is outside Warning and within Error range. The outputs are switched off and an acknowledge is required to restart the module.
3	Temperature Warning	Set if a temperature warning (in one of the output driver chips) is detected. Outputs are switched off and an acknowledge is required to restart the module.
4	Output Driver Channel Error	Set if an over current / short-circuit error has occurred. Outputs are switched off and an acknowledge is required to restart the module.
5	Module Error	Depending on the source of the fault, this error either requires acknowledge or is unrecoverable.
6	Output Stage Not Available	Set if no Auxiliary Power is available. No acknowledge is required
7-15		Reserved

Status / Diagnostic Data and Parameters

Object #11 –AUX Voltage Warning Low Limit

The Object #11 contains the value for the AUX Voltage Warning Low Limit – i.e.: the (low) AUX Voltage value (shown in mV) that will trigger the AUX Voltage Warning diagnostic

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#11	UINT16	1	Read/Write	AUX Voltage Warning Low Limit	18000	24000	20000

Object #12 –AUX Voltage Warning High Limit

The Object #11 contains the value for the AUX Voltage Warning High Limit, in millivolts – i.e.: the (high) AUX Voltage value that will trigger the AUX Voltage Warning diagnostic

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#12	UINT16	1	Read/Write	AUX Voltage Warning High Limit	24000	28500	26400

Object #13 –Output State Behaviour

The Object #13 applies in case of communication lost (between Controller and P2M Node) and determines the outputs behavior in case of loss of communication, as follow:

Object #13 = 0 → Outputs are set to “0”

Object #13 = 1 → Outputs are hold to last valid state

Obj	Data Type	N° of Element	Access	Name	Min Value	Max Value	Default
#13	UINT8	1	Read/Write	Output State Behavior	0	1	0

Device Modules

The P2M Node 24DO has six “Slots” that can be added to the engineering environment to access the different Objects of the device. A short description of the slots can be found in the table below:

Slot No	Name / Description
0	DAP (Device Access Point)
1	System Command
2	Solenoids
3	Module Error Input
4	Channel Error
5	Module Info Flags

Web Server

The P2M Node 24 DO module has web-server capability for monitoring and controlling purposes. The user’s write access to the Objects via web-sever is protected by username / password (**Default:** PARKER / PARKER).

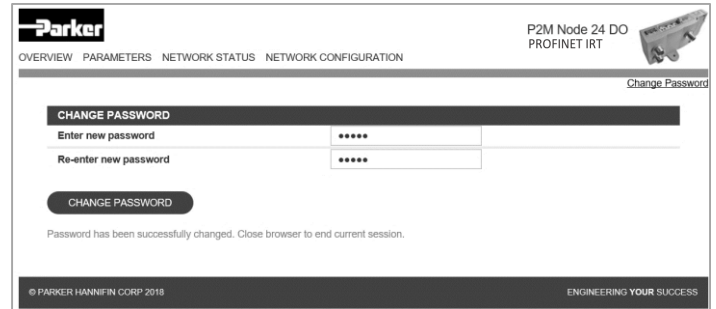
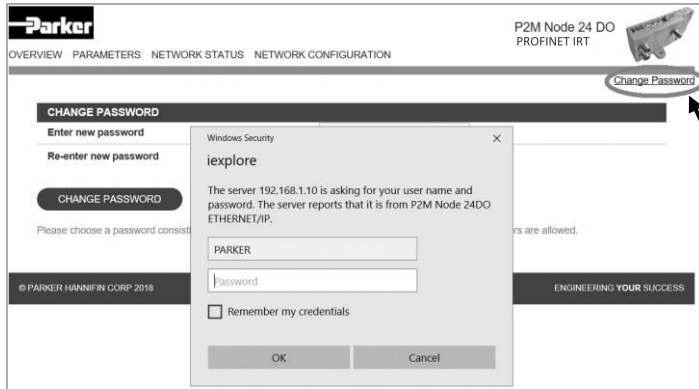
For accessing the module web-server, simply power it up and connect it to the Ethernet Network. The web-server is then accessible by entering the IP-address of the module in the web browser’s address field.

Web Server

Change Password

It is possible to modify the password via a dedicated button on the top right corner of all the tabs of the web server. The web server will require the user to enter the current password (left image below) before entering the new value for the field (right image below).

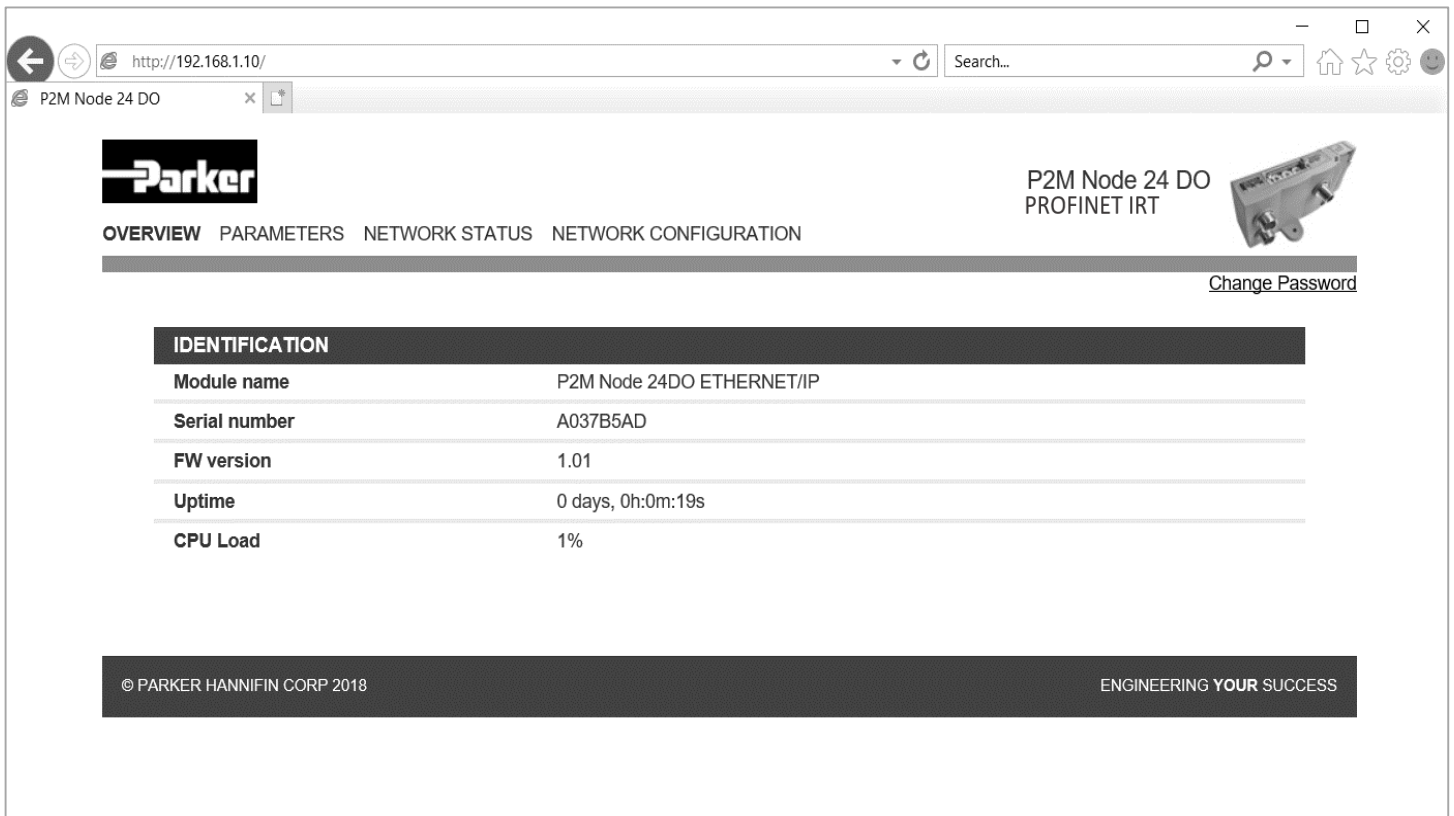
The password can be restored to default values (PARKER) with a “Reset to Factory”.



The Web-server has four tabs:


- **Overview:** Main product information is available via this page
- **Parameters:** Objects (Read and Write) are accessible via this page
- **Network Status:** Information about current network status is available via this page
- **Network Configuration:** the module’s network configuration can be displayed and set via this page


Overview Page



Web Server

Parameters Page



P2M Node 24 DO
PROFINET IRT


OVERVIEW
PARAMETERS
NETWORK STATUS
NETWORK CONFIGURATION

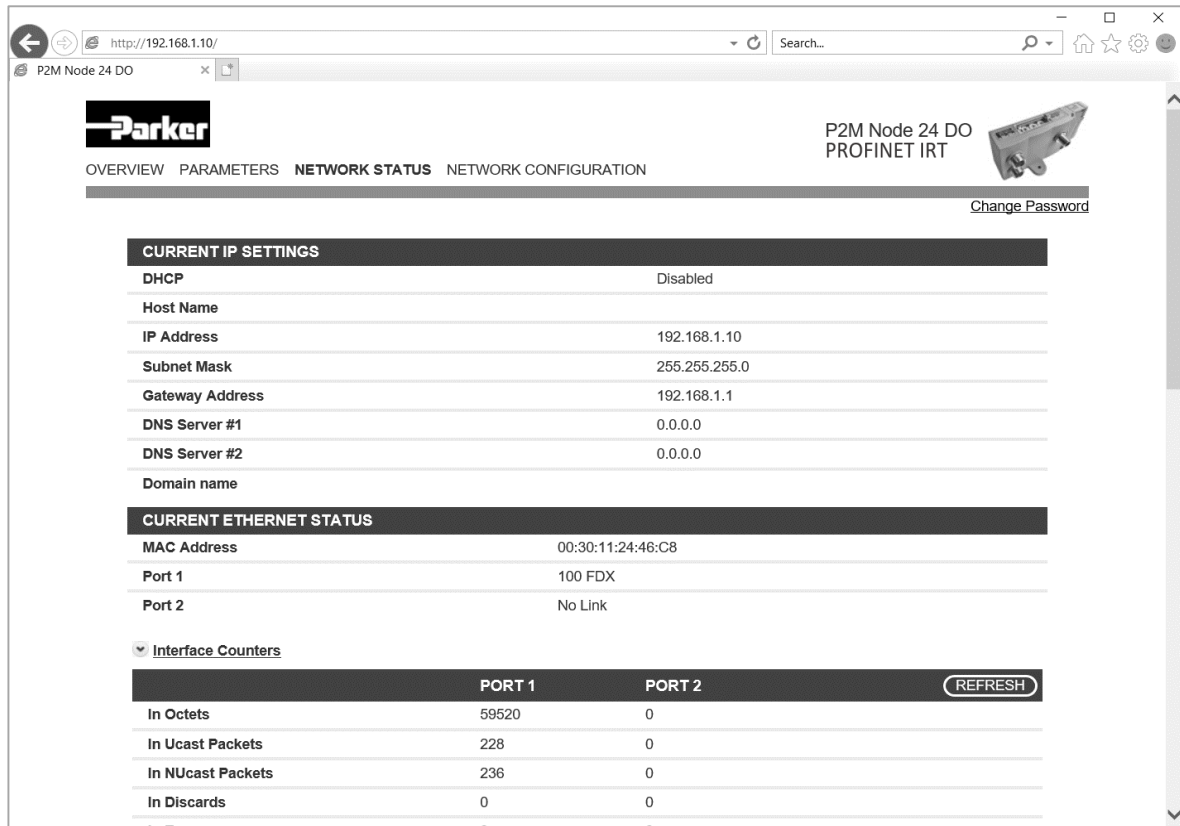
[Change Password](#)

NAME	VALUE	REFRESH
Output state at loss of communication	Set outputs to 0	Set
Solenoid	#1 to #8 0	Set
	#9 to #16 0	Set
	#17 to #24 0	Set
Solenoids Cycles Counters	#1 0	Clear Clear All
	#2 0	Clear
	#3 0	Clear
	#4 0	Clear
	#5 0	Clear
	#6 0	Clear
	#7 0	Clear
	#8 0	Clear
	#9 0	Clear
	#10 0	Clear
	#11 0	Clear
	#12 0	Clear
	#13 0	Clear
	#14 0	Clear
	#15 0	Clear
	#16 0	Clear
	#17 0	Clear
	#18 0	Clear
	#19 0	Clear
	#20 0	Clear
	#21 0	Clear
	#22 0	Clear
	#23 0	Clear
	#24 0	Clear Clear All
Channel Error	#1 to #8 0	
	#9 to #16 0	
	#17 to #24 0	
Module Info Flag	0	
Module Error Input	0	
AUX Voltage	(V) 23.617	
AUX Voltage Warning Level	(V) low: 20 Set high: 26.4 Set	
System Commands	Leave Fail-Safe Store Counters Reset to Factory Default	

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ENGINEERING YOUR SUCCESS

Web Server

Network Status Page



P2M Node 24 DO
PROFINET IRT

Change Password

CURRENT IP SETTINGS

DHCP	Disabled
Host Name	
IP Address	192.168.1.10
Subnet Mask	255.255.255.0
Gateway Address	192.168.1.1
DNS Server #1	0.0.0.0
DNS Server #2	0.0.0.0
Domain name	

CURRENT ETHERNET STATUS

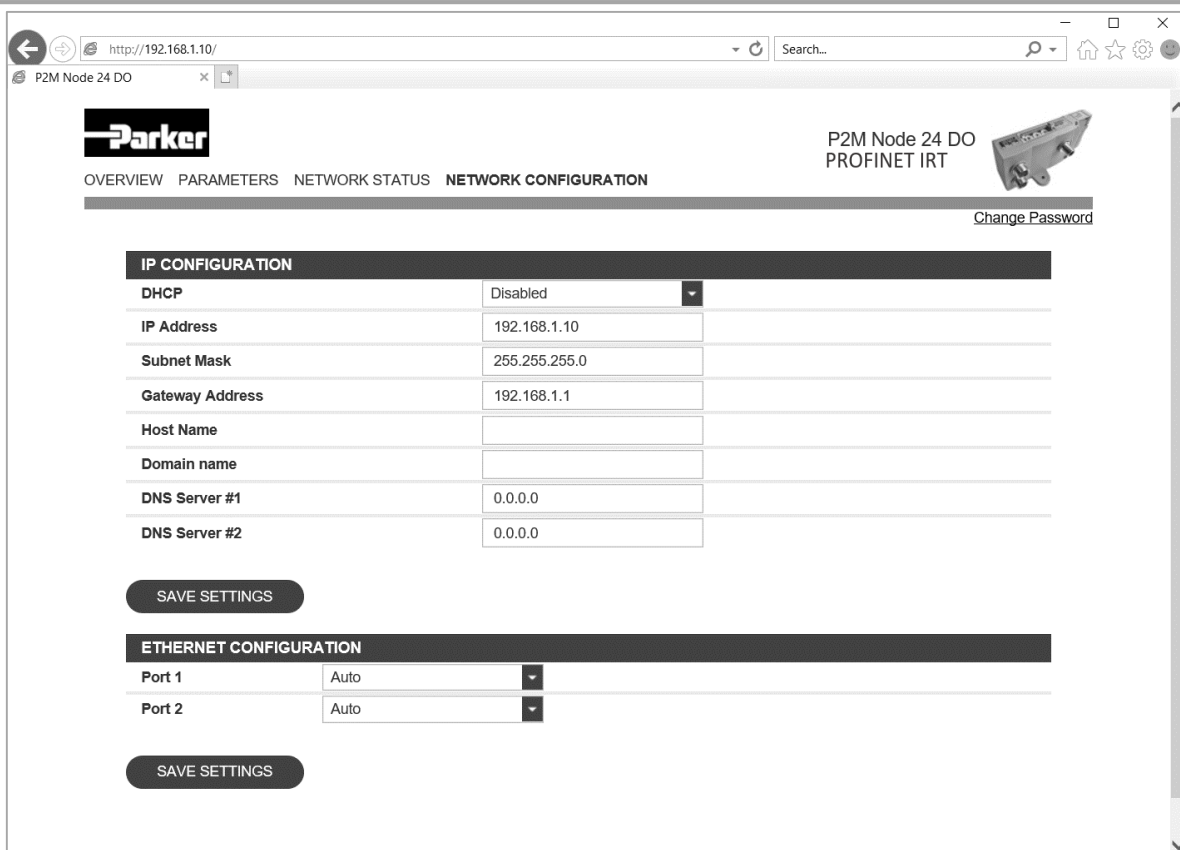
MAC Address	00:30:11:24:46:C8
Port 1	100 FDX
Port 2	No Link

☒ Interface Counters

	PORT 1	PORT 2
In Octets	59520	0
In Ucast Packets	228	0
In NUcast Packets	236	0
In Discards	0	0

REFRESH

Network Configuration Page



P2M Node 24 DO
PROFINET IRT

Change Password

IP CONFIGURATION

DHCP	Disabled
IP Address	192.168.1.10
Subnet Mask	255.255.255.0
Gateway Address	192.168.1.1
Host Name	
Domain name	
DNS Server #1	0.0.0.0
DNS Server #2	0.0.0.0

SAVE SETTINGS

ETHERNET CONFIGURATION


Port 1	Auto
Port 2	Auto

SAVE SETTINGS

PARKER Hannifin Manufacturing France SAS

Pneumatic Division Europe
Parc d'Activités de la Forêt
BP 3124
534, rue Henri Becquerel
27031 EVREUX CEDEX - FRANCE



P2M Node 24DO 
User Manual
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