



MarCom GW-IMP-WEB-4 Web Counter Datalogger User Manual

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MarCom GW-IMP-WEB-4 Web Counter Datalogger



Revision Table

Release No.	Date	Revision Description
Rev. 1	11/04/19	Nuovo formato guida
Rev. 1.1	28/06/19	Modificata sezione FTP setup. Aggiunta sezione guida download file FTP.
Rev. 1.2	13/01/2020	From GW-IMP-WEB-4 v1.8

Manual downloadable at:

<https://shop.marcomweb.it/en/shop-online/remote-control/datalogger/gw-imp-web-4-pulse-counter-web-datalogger-18-di-eth-l-dettagli.html>

GENERAL INFORMATION

System

The web pulse counter datalogger is able to count pulses on the digital inputs (2 expandable by default). Via the web interface it is possible to display counting values, change pulse weight and enter an offset in case of misalignment or post installation of the counter. All data can be displayed via the web interface or accessed via MODBUS TCP connection (on request also via MODBUS RTU). As an optional feature, the data logger can be ordered with time-based saving of the counters to a csv file in the internal memory or to an SD card. The files can be downloaded via ftp server functionality.

This version of the datalogger has a maximum of 18 countable inputs and provides the values on:

- RS232 MODBUS RTU slave port;
- RS485 MODBUS RTU slave port;
- Ethernet MODBUS TCP Server port (max 3 client connection);

Features

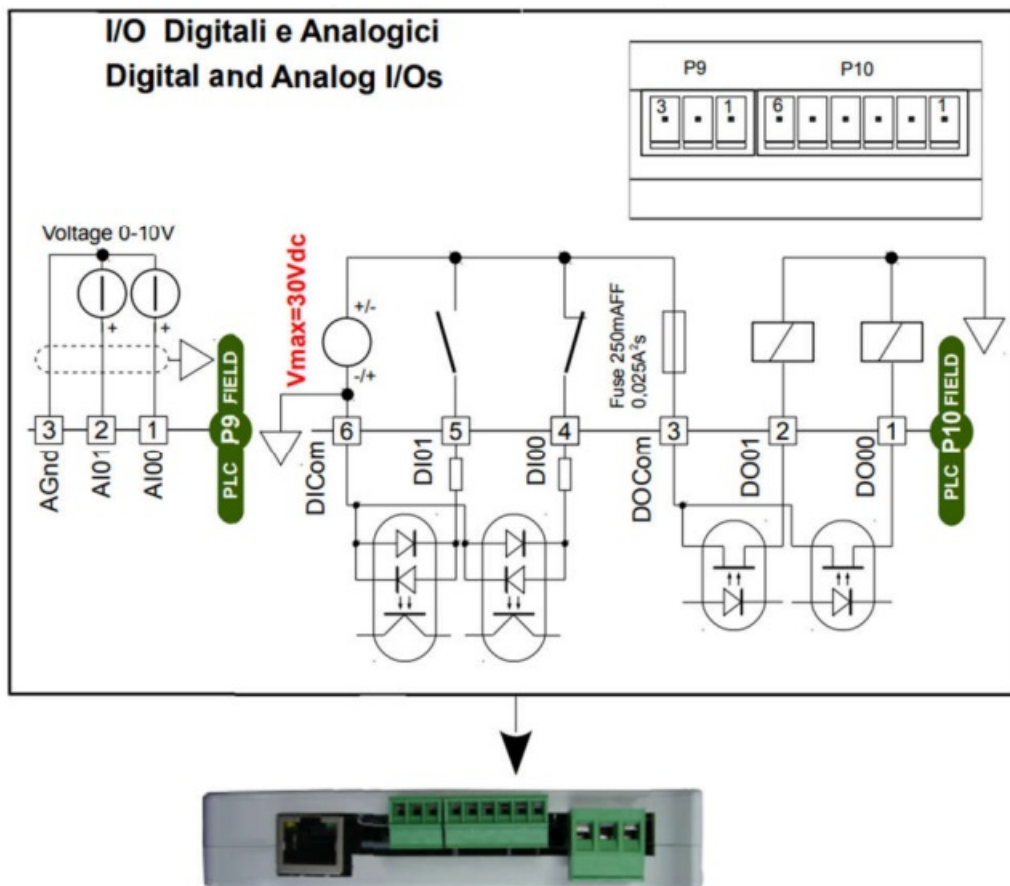
Connections

The gateway has:

- -2 x RS232 serial port for reading data from a Modbus RTU master
- 1 x RS485 serial port for reading data from a Modbus RTU master, identified by the word FIELDBUS
- 1 x Ethernet port for reading data from a Modbus TCP master
- SD card slot for saving data
- 1 x screw connector for power supply 10-30 VDC (min. 2 W)
- LED indicators on the front for communication diagnostics
- 2+16 x Digital Input (*)
- 2+8 x Digital Output (*)

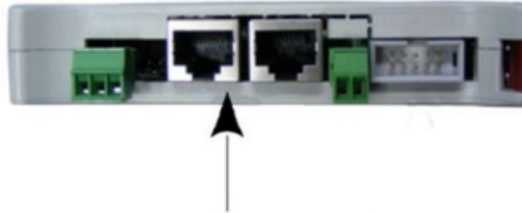
(*) Their status is mapped in Modbus registers.

I/O Connections

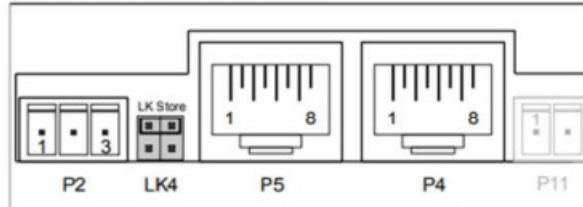


Serial connections

RS232 and RS485 serial connection (FIELD BUS):



Porte RS232 e bus di campo RS232 Ports and Field bus



Field Bus (P2)				RS232 (COM0 P4, COM1 P5)			
		RS485 (COM2)		Pin	Signal	Pin	Signal
		Pin	Signal	1	N.C.	6	TX (Out)
		1	D+	2	N.C.	7	CTS (In)
		2	D-	3	DTR (Out)	8	RTS (Out)
		3	Field GND	4	GND		
LK4	ON= Line Terminated (120Ω)			5	RX (In)		

CONFIGURATION AND MODBUS MAP

TCP Connection

In order to view the web pages containing the data, it is necessary to connect the datalogger to the Ethernet network via the RJ45 port available. Using a web browser, simply type in the default address: 192.168.0.122; if there is no connection, check that your network card has an address on the 192.168.0.X subnet. This will take you to the main datalogger screen with the counter values..

Web Pages

Home datalogger

MARCOM DATALOGGER

GW-IMP-WEB-3 rev. 1.6

[Home datalogger](#) | [Historical data](#) | [IO Status](#) | [Setting pulse](#) | [Hardware setup](#) | [Time setup](#) | [FTP setup](#) | [System](#)

Page refresh in 11 seconds [Refresh](#)

COUNTER 1	
Value	0.00
Weight	1.00
Offset	0.00

COUNTER 2	
Value	0.00
Weight	1.00
Offset	0.00

Marcom S.r.l. - <http://www.marcomweb.it>

From this page, through the links at the top of the page, the following pages can be accessed:

- Historical data; Page containing the last 5 datalogger values and setting the save time.
- IO Status; Page to check the status of the inputs and to set the outputs available to the datalogger.
- Setting pulse; Page for setting pulse counter parameters such as pulse weight and count offset.
- Hardware setup; Page to change the hardware parameters of the pulse counter such as IP address and Modbus communication parameters.
- Time setup; Page to change the time or activate the NTP protocol.
- FTP Setup; Page to configure the automatic sending of files to an FTP server.
- System; Page for logging in to enable changes and to reboot the system.

Historical data

MARCOM DATALOGGER

GW-IMP-WEB-4 rev. 1.7

[Home datalogger](#) | [Historical data](#) | [IO Status](#) | [Setting pulse](#) | [Hardware setup](#) | [Time setup](#) | [FTP setup](#) | [System](#)

Page refresh in 13 seconds [Refresh](#)

HISTORICAL VALUES																		
Date & Time	Counter 1	Counter 2	Counter 3	Counter 4	Counter 5	Counter 6	Counter 7	Counter 8	Counter 9	Counter 10	Counter 11	Counter 12	Counter 13	Counter 14	Counter 15	Counter 16	Counter 17	Counter 18
6/12/2019, 11:32:00	1.0000	0.0000	1.0000	0.0000	0.0000	1.0000	0.0000	0.0000	1.0000	1.0000	0.0000	1.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
6/12/2019, 11:32:30	1.0000	0.0000	1.0000	0.0000	0.0000	1.0000	0.0000	0.0000	1.0000	1.0000	0.0000	1.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
6/12/2019, 11:33:00	1.0000	0.0000	1.0000	0.0000	0.0000	1.0000	0.0000	0.0000	1.0000	1.0000	0.0000	1.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
6/12/2019, 11:33:30	1.0000	0.0000	1.0000	0.0000	0.0000	1.0000	0.0000	0.0000	1.0000	1.0000	0.0000	1.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
6/12/2019, 11:34:00	1.0000	0.0000	1.0000	0.0000	0.0000	1.0000	0.0000	0.0000	1.0000	1.0000	0.0000	1.0000	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000

Save interval	0	sec	Save
Set 0 to disable saving.			

Marcom S.r.l. - <http://www.marcomweb.it>

Data is stored at fixed intervals, set in the Save interval field. This value must be between 30 seconds and 86400 seconds (corresponding to one day) and indicates every how many seconds the data is stored starting at 00:00 on the first day of the month. If the Save interval value is set to 0, saving is disabled.

IO Status

MARCOM DATALOGGER

GW-IMP-WEB-3 rev. 1.8

[Home datalogger](#) | [Historical data](#) | [IO Status](#) | [Setting pulse](#) | [Hardware setup](#) | [Time setup](#) | [FTP setup](#) | [System](#)

Page refresh in 10 seconds [Refresh](#)

DIGITAL INPUT	
DI0	
DI1	

DIGITAL OUTPUT	
DO0	
DO1	
Enable COPY IO -> OUT	

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On the IO Status page you can check the status of the digital inputs, view and set (after login) the status of the digital outputs and the percentage value of the analogue inputs..

Setting pulse

MARCOM DATALOGGER

GW-IMP-WEB-3 rev. 1.6

[Home datalogger](#) | [Historical data](#) | [IO Status](#) | **[Setting pulse](#)** | [Hardware setup](#) | [Time setup](#) | [FTP setup](#) | [System](#)

COUNTER 1		
Weight	1.00	Valori di default
Offset	0.00	

COUNTER 2		
Weight	1.00	Valori di default
Offset	0.00	

Save

Reset counters

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On the Setting datalogger page, it is possible to reset counter values, change pulse weights and offsets.

Hardware setup

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[Home datalogger](#) | [Historical data](#) | [IO Status](#) | [Setting pulse](#) | **[Hardware setup](#)** | [Time setup](#) | [FTP setup](#) | [System](#)

ETHERNET SETUP

MAC Address	70:B3:D5:13:D7:EB
DHCP	☐
IP Address	192.168.0.122
Network mask	255.255.255.0
Gateway	192.168.0.1
DNS from DHCP	☐
DNS Primary	8.8.8.8
DNS Secondary	8.8.4.4

SERIAL PORT SETUP

Serial port "COM0"	115200 8 E 1
Serial port "COM1"	115200 8 E 1
Serial port "COM2"	115200 8 E 1

MODBUS SETUP

Modbus on "COM0"	☒ RTU Node: 1
Modbus on "COM1"	☒ RTU Node: 1
Modbus on "COM2"	☒ RTU Node: 1
Modbus Over IP	☒ Node: 1 Port: 502

Save

Reboot the system to validate the changes.

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- The parameters that can be changed in the Hardware Setup page depend on the version of the counter.
- The RS232 serial port corresponds to COM0, while the RS485 serial port corresponds to COM2.
- After changing and saving the parameters, the device must be restarted.
- This can also be done from the System page.

Time setup

MARCOM DATALOGGER

GW-IMP-WEB-3 rev. 1.6

[Home datalogger](#) | [Historical data](#) | [IO Status](#) | [Setting pulse](#) | [Hardware setup](#) | **[Time setup](#)** | [FTP setup](#) | [System](#)

TIME SETUP	
Date (dd/mm/yyyy)	1/1/1970
Time (hh:mm:ss)	2:15:14
Time zone	1
Enable NTP	☒

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In the Time setup page it is possible to change the device time and enable the update from NTP server. The device does not have a realtime clock, so if the NTP update is not enabled, each time the device is restarted it resets to zero time (1/1/1970 00:00:00).

FTP setup

MARCOM DATALOGGER

GW-IMP-WEB-3 rev. 1.6

[Home datalogger](#) | [Historical data](#) | [IO Status](#) | [Setting pulse](#) | [Hardware setup](#) | [Time setup](#) | **[FTP setup](#)** | [System](#)

FTP SETUP	
Enable FTP	☒
Ora invio file [0-23]	1
Prefisso nome file	PREFIX_

Server FTP	10.212.212.121
User FTP	user
Password FTP	*****

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The fields User FTP and Password FTP must be filled in, otherwise the file will not be sent successfully. If the FTP server sending is enabled, a new file is created every day at the indicated time, with the saves of the last 24 hours. This file is saved in the SD memory. Every day at the indicated time the datalogger tries to send the file to the FTP server adding to the name the prefix set, if the sending is not successful the datalogger tries again the next day.

System

MARCOM DATALOGGER
GW-IMP-WEB-3 rev. 1.6

[Home datalogger](#) | [Historical data](#) | [IO Status](#) | [Setting pulse](#) | [Hardware setup](#) | [Time setup](#) | [FTP setup](#) | [System](#)

Username		Password		Login
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Marcom S.r.l. - <http://www.marcomweb.it>

On this page it is possible to login (Username = Admin, Password = Admin), which is necessary to modify the parameters, and to force a restart of the device..

Modbus area map

The data read from the counter are placed in the Holding Register memory area. A copy of the values in the following table is present from register 4x20000.

Modbus addresses are base 1 and double word values may need to be swapped.

Variabile Name	Type	MODBUS Address	Note
DIGITAL INPUT 1	UINT	4x40001	Digital Input (0= contact opened, 1=contact closed)
DIGITAL INPUT 2	UINT	4x40002	
DIGITAL INPUT 3	UINT	4x40003	
DIGITAL INPUT 4	UINT	4x40004	
DIGITAL INPUT 5	UINT	4x40005	
DIGITAL INPUT 6	UINT	4x40006	
DIGITAL INPUT 7	UINT	4x40007	
DIGITAL INPUT 8	UINT	4x40008	
DIGITAL INPUT 9	UINT	4x40009	
DIGITAL INPUT 10	UINT	4x40010	
DIGITAL INPUT 11	UINT	4x40011	
DIGITAL INPUT 12	UINT	4x40012	
DIGITAL INPUT 13	UINT	4x40013	
DIGITAL INPUT 14	UINT	4x40014	
DIGITAL INPUT 15	UINT	4x40015	
DIGITAL INPUT 16	UINT	4x40016	
DIGITAL INPUT 17	UINT	4x40017	

DIGITAL INPUT 18	UINT	4×40018	
DIGITAL OUTPUT 1	UINT	4×41500	Digital Output (0= contact opened, 1=contact closed)
DIGITAL OUTPUT 2	UINT	4×41501	
DIGITAL OUTPUT 3	UINT	4×41502	
DIGITAL OUTPUT 4	UINT	4×41503	
DIGITAL OUTPUT 5	UINT	4×41504	
DIGITAL OUTPUT 6	UINT	4×41505	
DIGITAL OUTPUT 7	UINT	4×41506	
DIGITAL OUTPUT 8	UINT	4×41507	
DIGITAL OUTPUT 9	UINT	4×41508	
DIGITAL OUTPUT 10	UINT	4×41509	
RESET	UINT	4×40000	Reset of actual counters
CONTATORE 1	REAL	4×41024	Counter total
CONTATORE 2	REAL	4×41026	

CONTATORE 3	REAL	4×41028	
CONTATORE 4	REAL	4×41030	
CONTATORE 5	REAL	4×41032	
CONTATORE 6	REAL	4×41034	
CONTATORE 7	REAL	4×41036	
CONTATORE 8	REAL	4×41038	
CONTATORE 9	REAL	4×41040	
CONTATORE 10	REAL	4×41042	
CONTATORE 11	REAL	4×41044	
CONTATORE 12	REAL	4×41046	
CONTATORE 13	REAL	4×41048	
CONTATORE 14	REAL	4×41050	
CONTATORE 15	REAL	4×41052	
CONTATORE 16	REAL	4×41054	
CONTATORE 17	REAL	4×41056	
CONTATORE 18	REAL	4×41058	
PESO_IMP_1	REAL	4×41074	

PESO_IMP_2	REAL	4×41076	Weight assigned for pulses on the respective counter 1
PESO_IMP_3	REAL	4×41078	
PESO_IMP_4	REAL	4×41080	
PESO_IMP_5	REAL	4×41082	
PESO_IMP_6	REAL	4×41084	
PESO_IMP_7	REAL	4×41086	
PESO_IMP_8	REAL	4×41088	
PESO_IMP_9	REAL	4×41090	
PESO_IMP_10	REAL	4×41092	
PESO_IMP_11	REAL	4×41094	
PESO_IMP_12	REAL	4×41096	
PESO_IMP_13	REAL	4×41098	
PESO_IMP_14	REAL	4×41100	
PESO_IMP_15	REAL	4×41102	
PESO_IMP_16	REAL	4×41104	
PESO_IMP_17	REAL	4×41106	
PESO_IMP_18	REAL	4×41108	
OFFSET_1	REAL	4×41124	Offset added to total
OFFSET_2	REAL	4×41126	
OFFSET_3	REAL	4×41128	
OFFSET_4	REAL	4×41130	
OFFSET_5	REAL	4×41132	
OFFSET_6	REAL	4×41134	
OFFSET_7	REAL	4×41136	

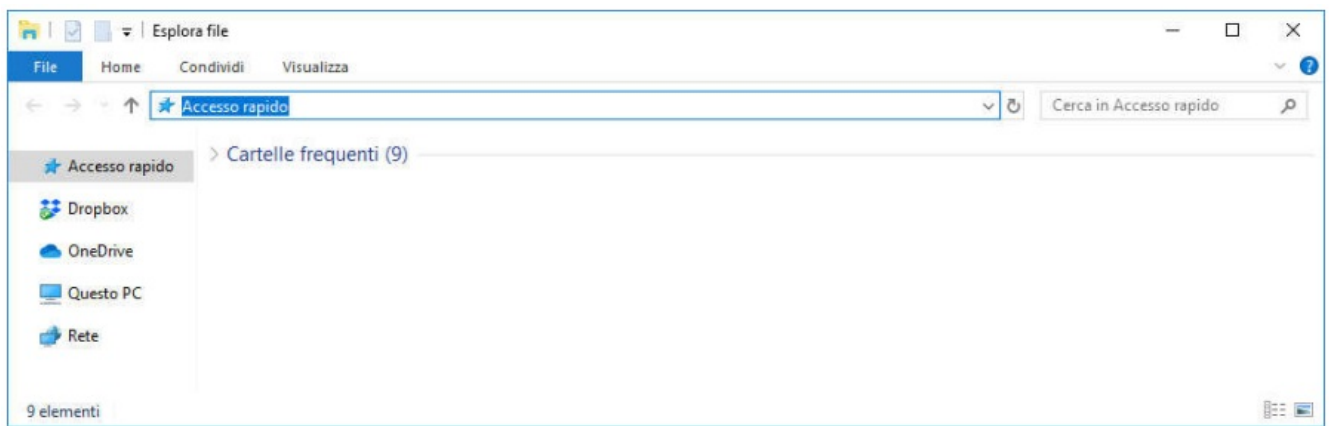
OFFSET_8	REAL	4×41138	
OFFSET_9	REAL	4×41140	
OFFSET_10	REAL	4×41142	
OFFSET_11	REAL	4×41144	
OFFSET_12	REAL	4×41146	
OFFSET_13	REAL	4×41148	
OFFSET_14	REAL	4×41150	
OFFSET_15	REAL	4×41152	
OFFSET_16	REAL	4×41154	
OFFSET_17	REAL	4×41156	
OFFSET_18	REAL	4×41158	
NUMERO IMPULSI 1	UDINT	4×41174	Total number of pulses
NUMERO IMPULSI 2	UDINT	4×41176	
NUMERO IMPULSI 3	UDINT	4×41178	
NUMERO IMPULSI 4	UDINT	4×41180	
NUMERO IMPULSI 5	UDINT	4×41182	
NUMERO IMPULSI 6	UDINT	4×41184	
NUMERO IMPULSI 7	UDINT	4×41186	
NUMERO IMPULSI 8	UDINT	4×41188	
NUMERO IMPULSI 9	UDINT	4×41190	
NUMERO IMPULSI 10	UDINT	4×41182	
NUMERO IMPULSI 11	UDINT	4×41194	
NUMERO IMPULSI 12	UDINT	4×41196	
NUMERO IMPULSI 13	UDINT	4×41198	
NUMERO IMPULSI 14	UDINT	4×41200	
NUMERO IMPULSI 15	UDINT	4×41202	
NUMERO IMPULSI 16	UDINT	4×41204	
NUMERO IMPULSI 17	UDINT	4×41206	
NUMERO IMPULSI 18	UDINT	4×41208	

GUIDE TO DOWNLOADING FILES FROM SD

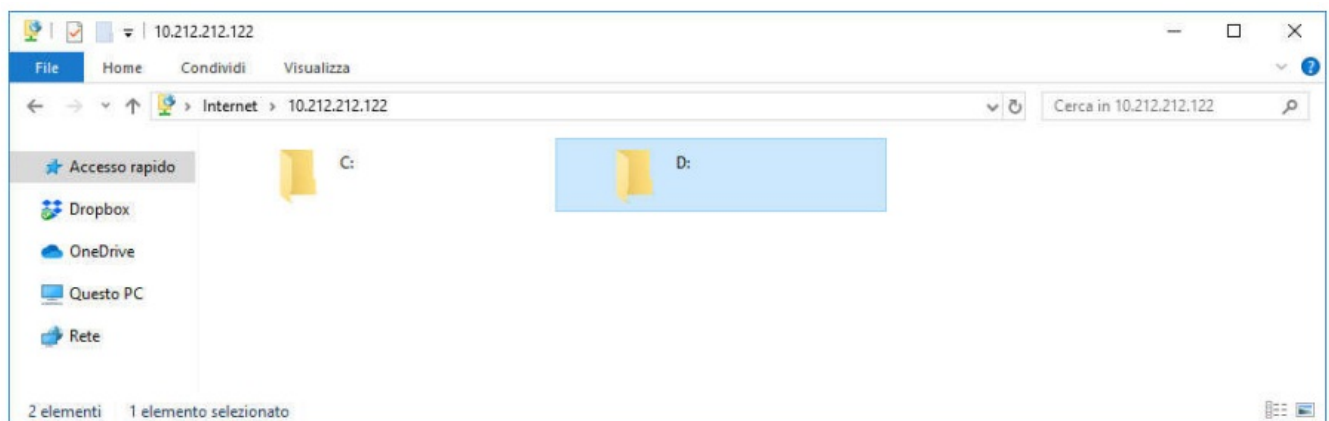
The following section contains instructions for FTP connection to the datalogger to download files or delete older files already transferred to the FTP server..

File Explorer

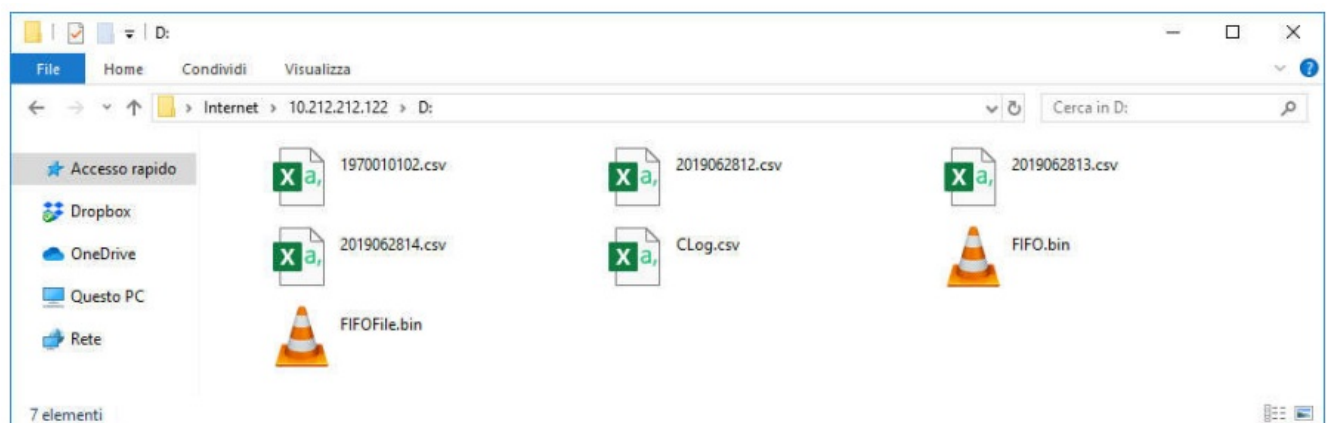
- Open a new File Explorer window



- In the address bar, type <ftp://Admin:Admin@192.168.0.122> and push Enter

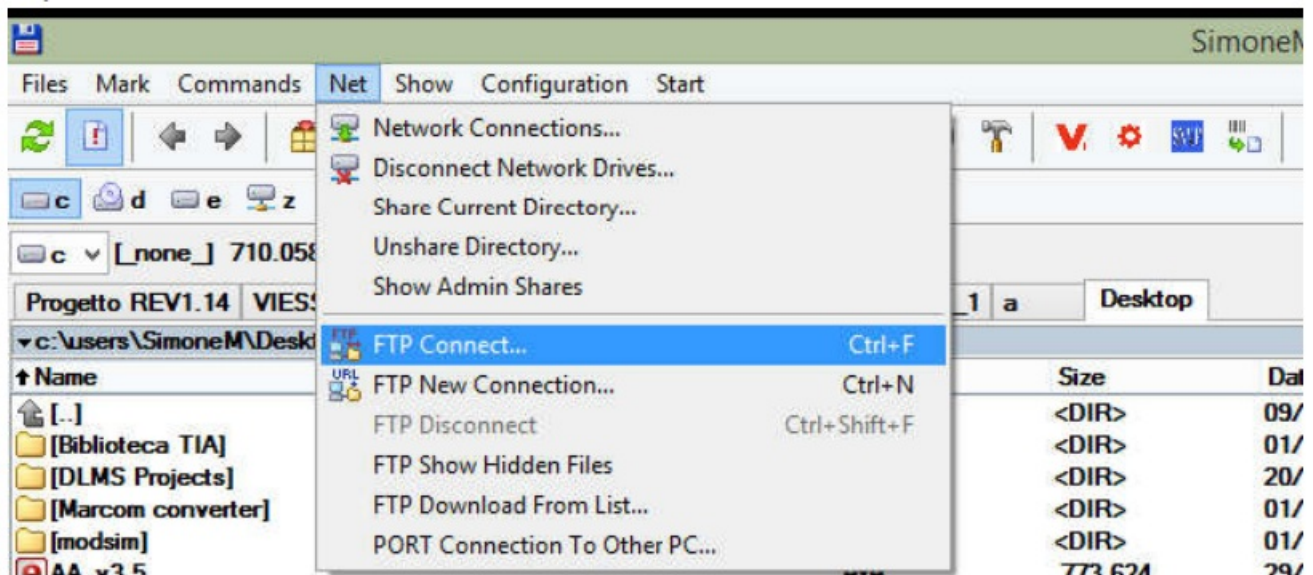


- Access the D folder

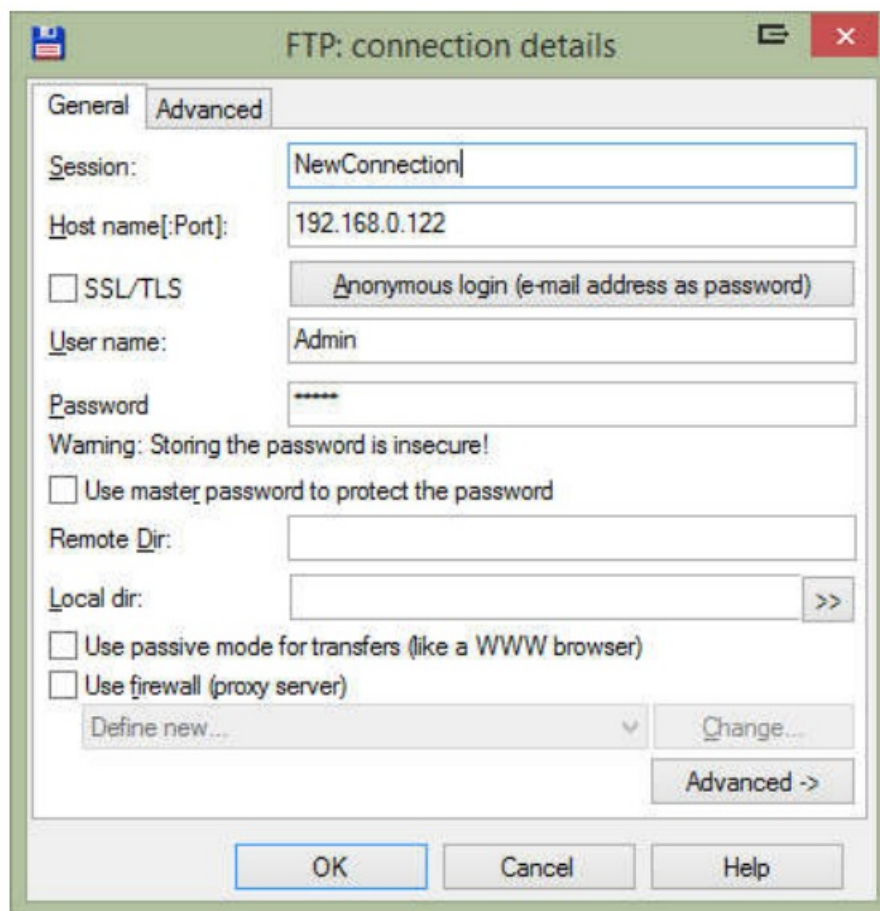


Total Commander

- Open FTP Connect...



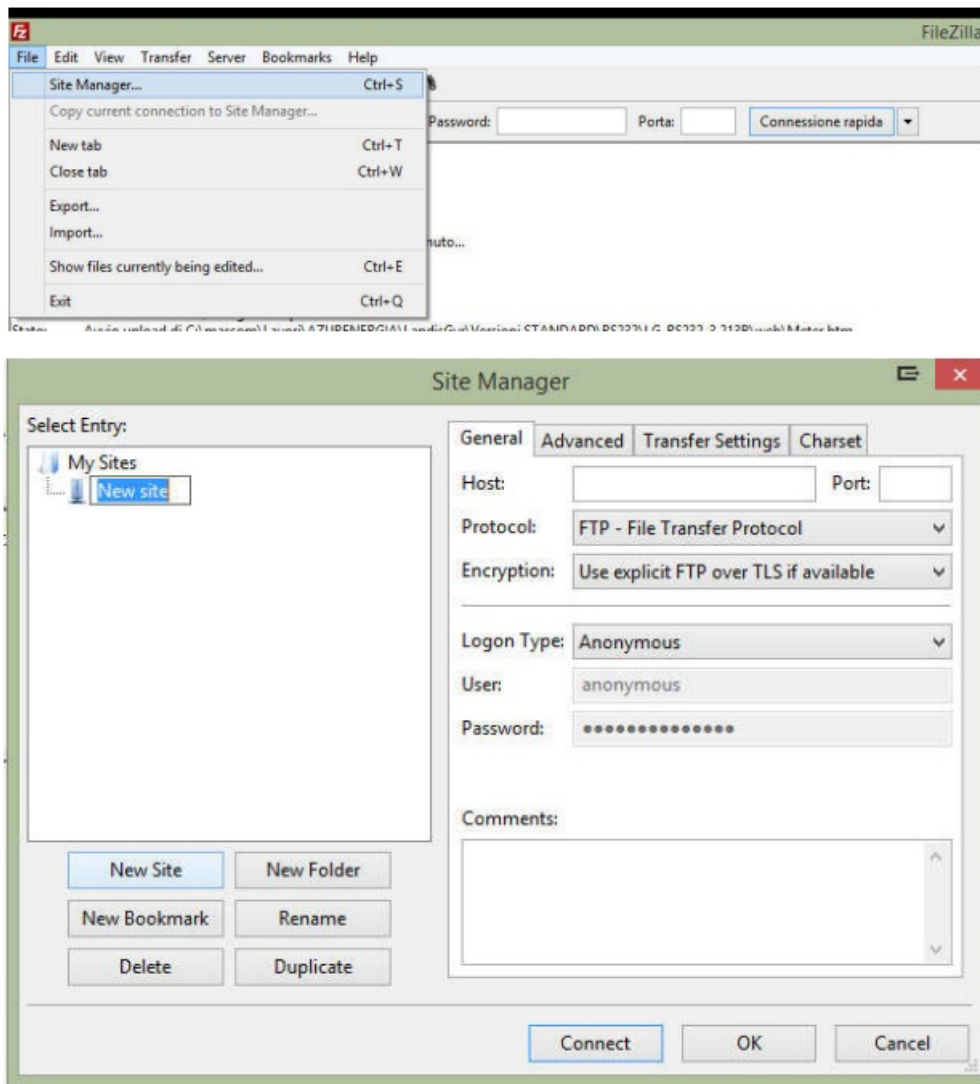
- Create a new connection; Username = Admin, Password = Admin



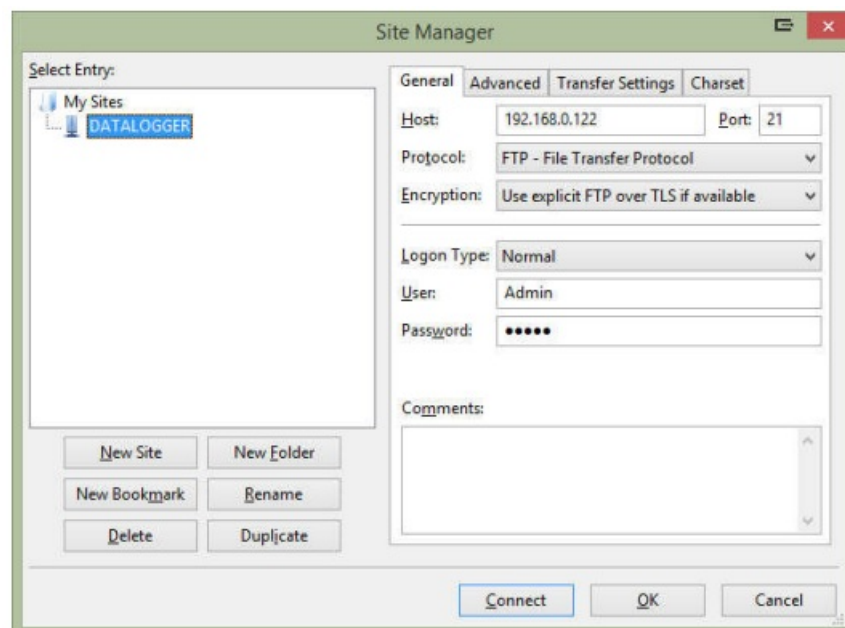
- In the "Connect to ftp server" window, click on Connect and after connecting, access the folder [D:].

FileZilla

- Open Site Manager and create a new site.



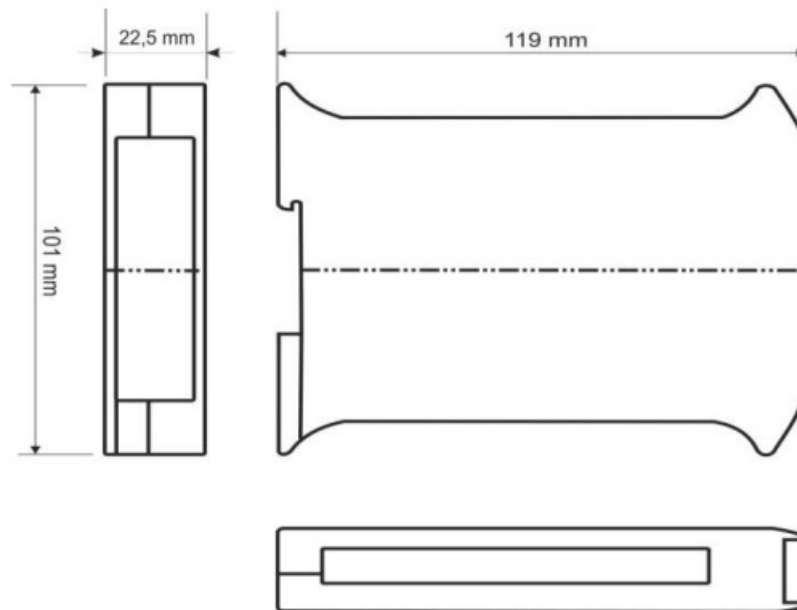
- Enter the IP address (Default 192.168.0.122) in the Host field, the connection port (Default 21) in the Port field, set Logon Type to Normal, User is Admin and Password is Admin



- Connect the server and access the D:

PHYSICAL CHARACTERISTICS

The gateway's dimensions are:



Documents / Resources

 USER MANUAL Web Counter Datalogger, Version 10 Inputs with Ethernet PIN: GW-IMP-WEB-4 Edition 1.2.1  MARCOS S.R.L. Via S. Maria 101 00187 Roma (RM) Email: info@marcom.it Website: www.marcom.it	MarCom GW-IMP-WEB-4 Web Counter Datalogger [pdf] User Manual GW-IMP-WEB-4, Web Counter Datalogger, GW-IMP-WEB-4 Web Counter Datalogger, Counter Datalogger, Datalogger
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References

-  [HOME - MARCOM S.r.l.](#)
-  [DATALOGGER](#)