



WATER TANK 4.1 BATTERY LIMITS

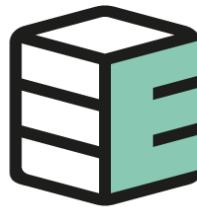
WTM41-BLI-INT01

Revision: 00 Status: IFP

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Rev Date: 14/07/2025

Page 1 of 7



Enapter

WATER TANK 4.1 BATTERY LIMITS

DOCUMENT N°: WTM41-BLI-INT01

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	WATER TANK 4.1 BATTERY LIMITS	WTM41-BLI-INT01
		Revision: 00 Status: IFP
	Discipline: PRO	Rev Date: 14/07/2025
		Page 2 of 7

INDEX

INDEX	2
1 PURPOSE.....	3
2 FIELD OF APPLICATION	3
3 DEFINITIONS AND ABBREVIATIONS.....	3
4 REFERENCE DOCUMENTS.....	3
5 RESPONSIBILITIES	3
6 WATER TANK 4.1 INTERFACES.....	4
7 INTERFACE SPECIFICATIONS	5
7.1 H₂O OUT	5
7.2 H₂O IN.....	5
7.3 OVERFILL.....	6
7.4 MAINTENANCE & AUTOFLUSHING	6
7.5 DRAIN.....	6
7.6 DEPRESSURIZE.....	7
7.7 POWER	7
7.8 Ethernet connector.....	7

	WATER TANK 4.1 BATTERY LIMITS	WTM41-BLI-INT01	
		Revision: 00	Status: IFP
	Discipline: PRO	Rev Date: 14/07/2025	Page 3 of 7

1 PURPOSE

The scope of this document is to define and describe the battery limits of the Water Tank 4.1. It illustrates the physical interface ports of the machine, to allow its users to integrate it with the other equipment that composes their system.

2 FIELD OF APPLICATION

Product codes: WTM41A5S, WTM41A5E

3 DEFINITIONS AND ABBREVIATIONS

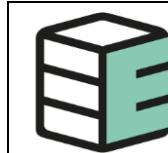
WT41	Water Tank 4.1
P&ID	Piping and Instrumentation Diagram
User	The integrator of the WT41 in a larger system

4 REFERENCE DOCUMENTS

Code	Name
WTM41-PID-00001	Water Tank 4.1 P&ID
WTM41-MAN-00001	Water Tank 4.1 User Manual

5 RESPONSIBILITIES

User: It is the user's responsibility to adhere to the ranges and constraints set henceforth. Failure to do so may cause the system to behave in an unpredictable/unsafe behaviour and render void the product warranty.



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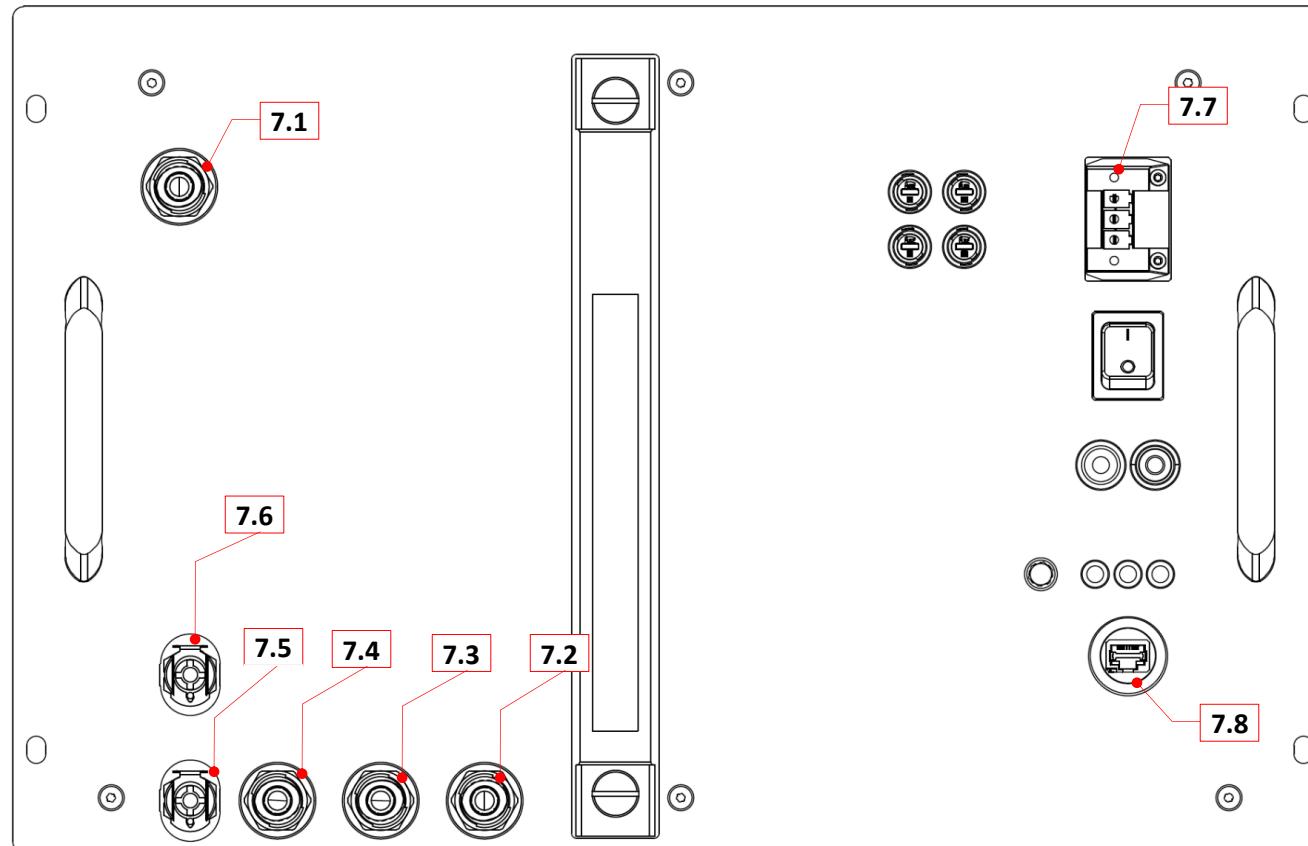
Discipline: PRO

Rev Date: 14/07/2025

Page 4 of 7

6 WATER TANK 4.1 INTERFACES

The following figure shows the positions of the WT 4.1 physical interfaces. All interfaces are located on the front panel.



	WATER TANK 4.1 BATTERY LIMITS	WTM41-BLI-INT01	
		Revision: 00	Status: IFP
	Discipline: PRO	Rev Date: 14/07/2025	Page 5 of 7

7 INTERFACE SPECIFICATIONS

The values set in the following tables are operative values to be considered in the user system interface with WT41.

7.1 H₂O OUT

This port is the outlet for the water to go refilling the electrolyser. At the back of this port is a demanding pump that starts operation when lowering of pressure is detected.

Name	H ₂ O OUT
Fitting Type	10 mm DM Fit Push-In tube fitting
Fitting Material	POM
Fluid	Deionized H ₂ O
Flowrate	3.8 L/min
Pressure	0-2.75 barg
Temperature	Ambient temperature

- The user should connect piping with compatible material.

7.2 H₂O IN

From this inlet port, the Deionized water comes. It is internally checked on its quality by a conductivity sensor to eliminate the electrolyser's possibility of deterioration.

Name	H ₂ IN
Fitting Type	10 mm DM Fit Push-In tube fitting
Fitting Material	POM
Fluid	Deionized H ₂ O
Flowrate	Upstream equipment flowrate
Pressure	Upstream equipment pressure: 0-6 barg
Temperature	Ambient temperature

- Care should be taken not to attach any pressurised system with a pressure higher than 6 barg.
- The user's upstream equipment regulates the inlet pressure. Operative pressure range should stay between 0 and 4 barg.
- The user should connect piping with compatible material.
- A minimum water flow is required: 0.28 L/min.

	WATER TANK 4.1 BATTERY LIMITS	WTM41-BLI-INT01	
		Revision: 00	Status: IFP
	Discipline: PRO	Rev Date: 14/07/2025	Page 6 of 7

7.3 OVERFILL

Through this outlet port the overfilling water comes out.

Name	OVERFILL
Fitting Type	10 mm DM Fit Push-In tube fitting
Fitting Material	10 mm DM Fit Push-In tube fitting
Fluid	Deionized H ₂ O
Flowrate	Upstream equipment flowrate
Pressure	Atmosphere pressure
Temperature	Ambient temperature

- Care should be taken to check and maintain the overfilling line regularly and keep it free of ice or obstructions.
- The user should connect piping with compatible material.
- The user should direct piping to water collector bin to avoid flooding

7.4 MAINTENANCE & AUTOFLUSHING

This port is used only for Maintenance action when it is necessary to wash the "H2O IN" line and, therefore, the conductivity sensor.

Name	MAINTENANCE & AUTOFLUSHING
Fitting Type	10 mm DM Fit Push-In tube fitting
Fitting Material	POM
Fluid	Deionized H ₂ O
Flowrate	Upstream equipment flowrate
Pressure	0 barg - Max Water inlet pressure rate (transient)
Temperature	Ambient temperature

- The user's upstream equipment regulates the outlet pressure.
- The user should connect piping with compatible material.
- The user should direct piping to water collector bin to avoid flooding

7.5 DRAIN

This port is used only before maintenance of the water tank.

Name	DRAIN
Fitting Type	CPC 10mm female connector
Fitting Material	POM
Fluid	H ₂ O
Pressure	Atmosphere pressure
Temperature	Ambient temperature

	WATER TANK 4.1 BATTERY LIMITS		WTM41-BLI-INT01
	Revision: 00	Status: IFP	
	Discipline: PRO	Rev Date: 14/07/2025	Page 7 of 7

7.6 DEPRESSURIZE

This port is used only before maintenance of the water tank. **Never depressurize the device during operation!**

Name	DEPR.
Fitting Type	CPC 10mm female connector
Fitting Material	POM
Fluid	H ₂ O
Flowrate	--
Pressure	0-2.75 bar (transient)
Temperature	Ambient temperature

7.7 POWER

This inlet port is needed to provide power to the WT 4.1. The connector needed to plug into this interface is provided by Enapter.

Name	POWER
Fitting Type	PCB 3-pin 7,62 mm pitch female connector
Fitting Material	PA (polyamide)
Current	0-0.5 A
Voltage	110-240 V _{AC}
Frequency	50/60 Hz

- Enapter provides the male coupling to connect to this port.

7.8 Ethernet connector

This port is needed to provide Ethernet connection to the WT 4.1.

Name	Ethernet connector
Fitting Type	RJ45 – Jack to Jack
Shielding	Fully shielded, 360° shielding contact
Fitting Material	PA (polyamide)