

USER MANUAL

MU 7038 EN F
GRAVICOMPT MANIFOLD



F	2022/10/31	New software platform	TABTI-BENHARI	NC
E		New software platform <i>This software version requires the installation of the boot loader v5.0 which causes the reset of settings and records</i>	DSM	FDS
Issue	Date	Nature of modifications	Written by	Approved by

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1 GENERAL PRESENTATION AND DESCRIPTION

The GRAVICOMPT MANIFOLD is a gravity measuring system. You can install it on semi and rigid trucks. It enables delivery of products through a multi-compartment manifold. It measures liquids other than water such as fuel, diesel, off-road diesel (GNR), ethanol ad-blue and biofuels.

The system is based on a single calculator-indicator MICROCOMPT+ MONO or DUAL that can manage one or two measuring systems.

When the system manages a single GRAVICOMPT MANIFOLD, it is called EmA or EmB.

DUAL When the system manages two GRAVICOMPT MANIFOLD, they are called EmA and EmB. The relevant menus are shaded later in the document.

The equipment depends on the number of GRAVICOMPT MANIFOLD:

	1 GRAVICOMPT MANIFOLD EMA or EMB	DUAL 2 GRAVICOMPT MANIFOLD EMA and EMB
MICROCOMPT+ electronic calculator-indicator	1	1
Turbine meter	1	2
Differential pressure sensor	1	2
Gas detection sensor located upstream of the turbine meter	1	2
Non-return vent valve to ensure the manifold fills and empties properly	1	1
Printer – option	1	1
Temperature probe – option	1	2
<i>Air-operated gates connecting each compartment with the manifold</i>	<i>According to the number of compartments</i>	<i>According to the number of compartments</i>
<i>Transfer valve which regulates the flow</i>	1	2

The GRAVICOMPT MANIFOLD can:

- ⇒ Manage measuring operations,
- ⇒ manage faults,
- ⇒ measure quantities of products.

In option, the system controls the product temperature.

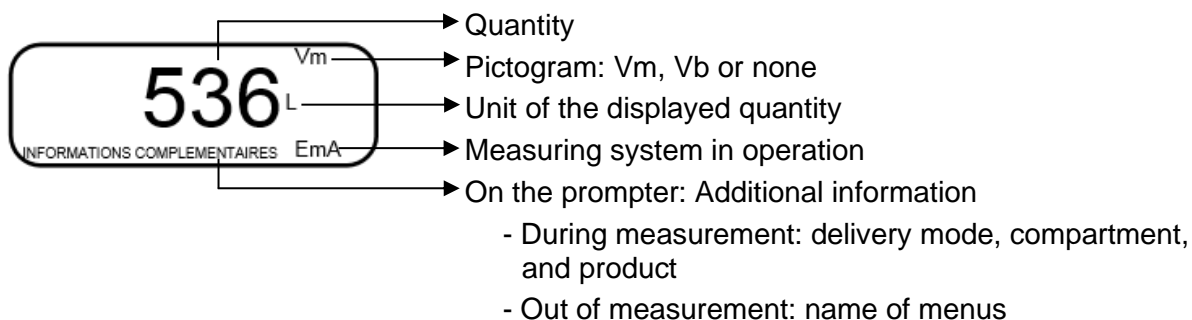
In addition, it may be connected to a printer for delivery tickets, internal totalisers, parameters or diary printings.

NOTE: The information printed by the printer has no metrological value. Only the indications displayed by the indicator shall be considered legally valid.

The MICROCOMPT+ has one display:

The displayed quantity depends on the system configuration. The user is informed by a pictogram at the top-right of the display according to the conventions below:

- ⇒ Volume in metering conditions: pictogram Vm (volume aux conditions de mesurage in french).
- ⇒ Volume converted to the reference temperature: pictogram Vb (volume brut in french).
- ⇒ Mass: no pictogram.



The MICROCOMPT+ has three pushbuttons:

	Increment a blinking figure or letter Come back to the previous step Stop the measurement
	Select a figure, a letter or a menu
	Validate the data

Use the RFID key:

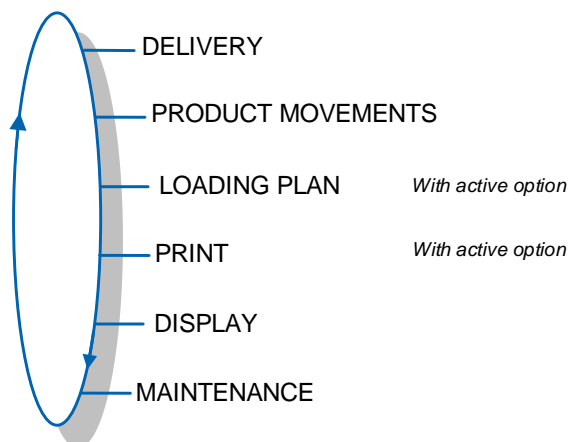
	Blue key This key is associated to a single MICROCOMPT+. It is used to access the setup
	Green key: Level-Manager This key is associated to a single or several MICROCOMPT+. It is used to access the setup.

2 OPERATING RECOMMENDATIONS

For a use of the GRAVICOMPT MANIFOLD, make sure to meet the conditions that follow:

- ⇒ The piping linking each compartment and the transfer valve must have a minimum pitching of 3%. The vehicle on which the measuring system is installed must be fitted with a device to ensure it is horizontal

3 USE THE GRAVICOMPT MANIFOLD



The use of the GRAVICOMPT MANIFOLD depends on the hardware configuration of the truck, the features and the configuration of the equipment carried out during commissioning.

Therefore, the user menu depends on several items:

- ⇒ The number of measuring systems (one or two),
- ⇒ the number of compartments,
- ⇒ the control of the compartments flaps,
- ⇒ the temperature control (conversion of the volume),
- ⇒ the printer management,
- ⇒ the loading plan management.

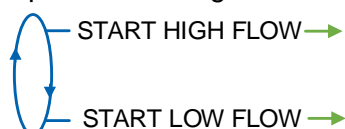
3.1 Menu DELIVERY

At rest, the MICROCOMPT displays a flashing number and the product label corresponding to the last quantity delivered.

There are several distribution modes:

- ⇒ **PRESET:** It allows to deliver a quantity of product previously entered. The delivery is stopped automatically
- ⇒ **FREE:** It allows to empty a compartment. A user action is required to stop the delivery.

Delivery can be performed in high or low flow. This choice is made for pumped deliveries at the display of the message START HIGH FLOW. The blue MENU BUTTON switches on the display START LOW FLOW. The choice is made by pressing the green OK BUTTON. Switching is possible during the delivery by pressing the blue MENU BUTTON.

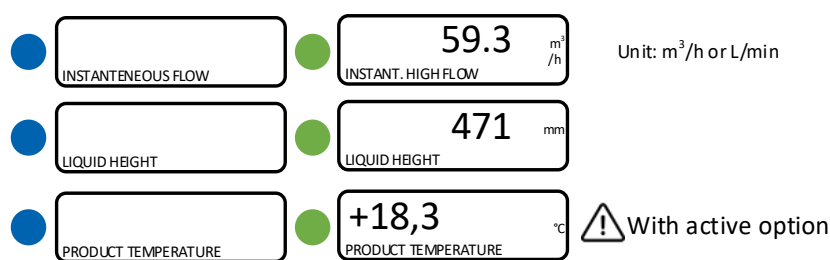


NOTE: In the event of a delivery interruption, improper handling of the pushbuttons may enter the menu DISPLAY (totalisers, memory). Simply press the red button to display DISPLAY and then the blue button to return to DELIVERY STOP. Confirm with the green button to select the next step

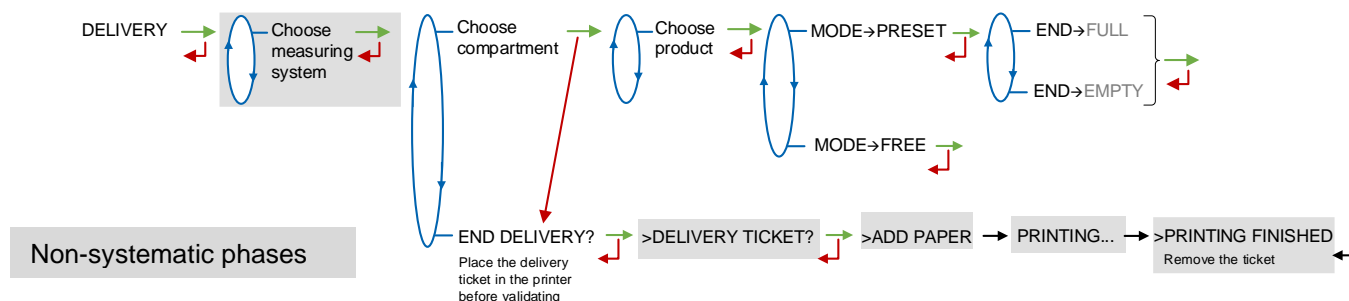
During measurement, the following information may be displayed:

- ⇒ The instantaneous high or low flow rate. The unit depends on settings,
- ⇒ the level of liquid in the compartment is use,
- ⇒ the temperature (°C) if it is taken into account.

Simply follow the indications below:



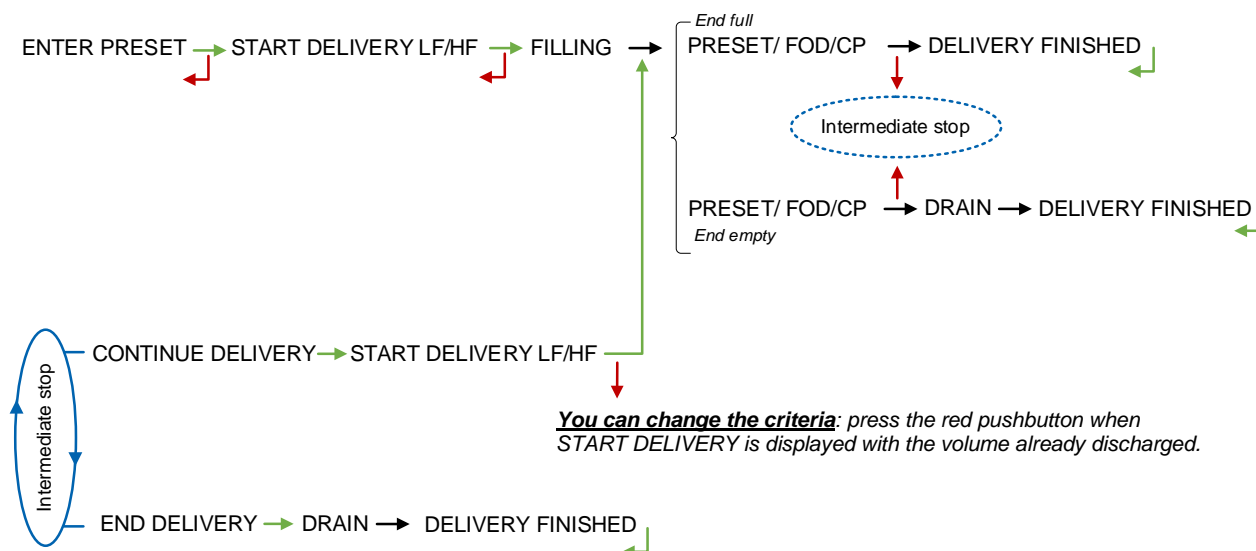
Back to normal display is automatic: DO NOT PRESS RED CLEAR BUTTON TO KEEP FROM INTERRUPTING DELIVERY.



Delivery in preset mode

Validate the distribution mode: MODE→PRESET and set the volume. If the preset volume is lower than the authorized volume, the measurement is invalidated at the end of the operation; it is displayed alternately with dashes: '-- -- --'.

Press OK to start the unloading. Pressing the STOP button stops the unloading.



Delivery in free mode

Validate the distribution mode: MODE→FREE.

Press OK to start the unloading and to empty the compartment. Pressing the STOP button stops the unloading.

START DELIVERY LF/HF → FILLING → FREE/FOD/CPT → DRAIN → DELIVERY FINISHED

3.2 Menu PRODUCT MOVEMENTS

This procedure is used to empty the manifold to the delivery valve, in order to prevent any mixture of product. The quantity taken into account corresponds to the sum [fixed quantity]+[manifold quantity]. The draining procedure is carried out when the end-of-metering probe is wet, it is traced in the summary '(V)DRAINING'

PRODUCT MOVEMENTS → EMPTY MANIFOLD → Valid the product (in the compartment) → START DRAINING → DRAINING → END DRAINING → DRAINING FINISHED

3.3 Menu **LOADING PLAN** (option)



With active option.

The **LOADING PLAN** menu is used to display the quality and the quantity of the products available in each compartment according to the information received from the embedded computing or entered manually. The volumes per compartment are updated as the deliveries and product movements continue.

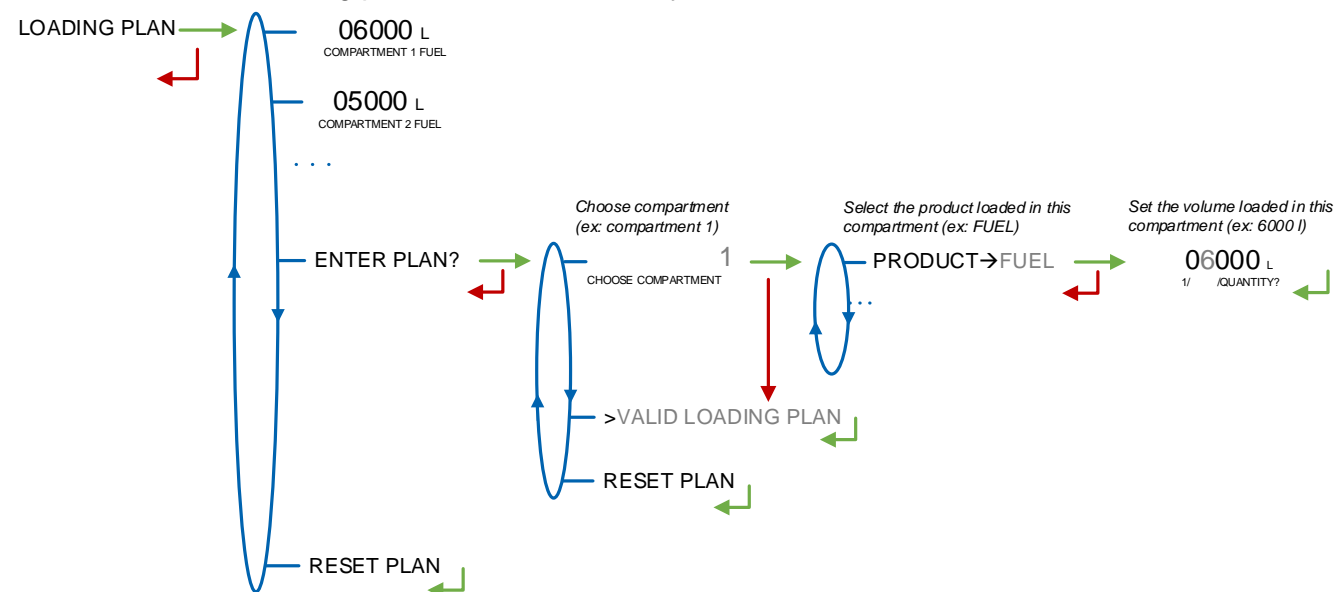
In case of a blocking function, an empty compartment won't be available for a delivery until you enter a new product quality via this menu. A compartment is considered as empty if the end height is reached and if the end-of-metering probe is wet. CPT X EMPTY is displayed during the delivery.

The loading plan can be entered manually:

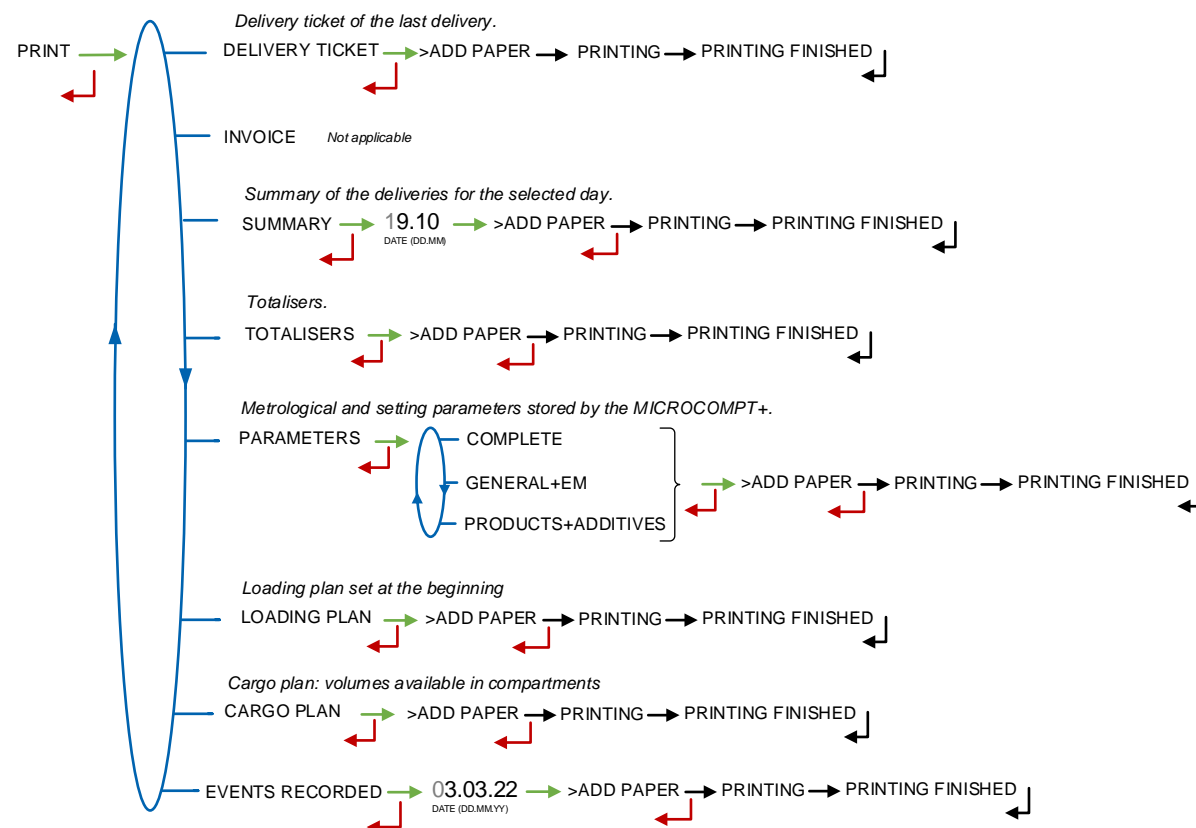
ENTER PLAN: For each compartment, select the product name and set the loaded volume. Then you must validate the loaded plan

VALID LOADING PLAN: This step validates the manually entered loading plan.

RESET PLAN: The loading plan can be cancelled by this menu.



3.4 Menu PRINT



According to the needs, the **PARAMETERS** sub-menu prints all or part of the parameters. Choose the menu:

COMPLETE: The general parameters are printed first, then remove the sheet and add another one to print the parameters of the measuring system (EM), and do the same to print the product and additive parameters. See ADDENDUM 1

GENERAL+EM: The general parameters are printed first, then remove the sheet and add another one to print the parameters of the measuring system (EM).

PRODUCTS+TOTALISERS: Printing of the product and additive parameters

NOTE: Between each sheet, the message PRINTING FINISHED is displayed.

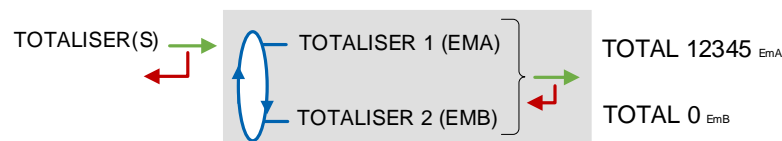
3.5 Menu DISPLAY

This menu is available in stand-by mode or during an intermediate stop. It allows the proofreading of totalisers and measurement results.



3.5.1 Sub-menu TOTALISER(S)

Display the totalisers of the measuring systems. Vb totalizer is available with active conversion.

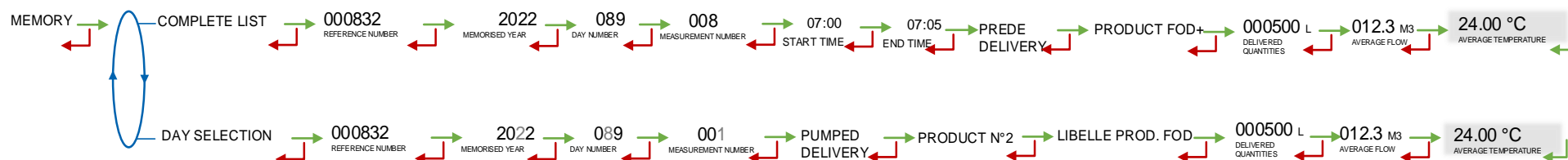


3.5.2 Sub-menu MEMORY

You can read all the measurement results stored by the GRAVICOMPT. That can be done in two ways:

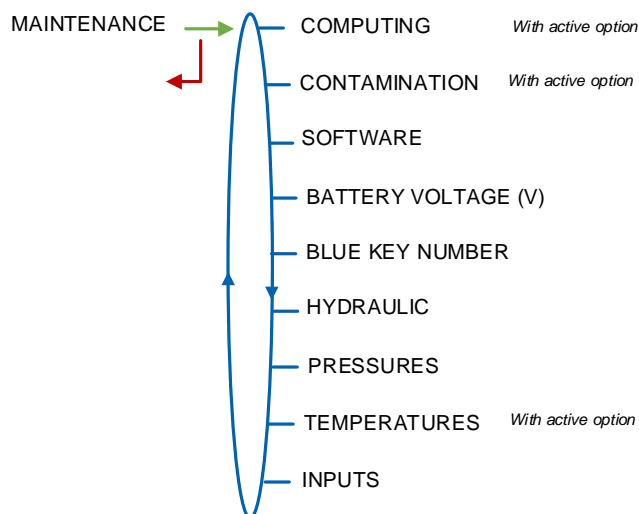
COMPLETE LIST: Display all the measurement details recorded, from the newest to the oldest, sorted by day then by measurement number.

DAY SELECTION: Display a specific measurement by selecting the day number.



3.6 Menu **MAINTENANCE**

NOTE: This menu depends on the configuration of the measuring system

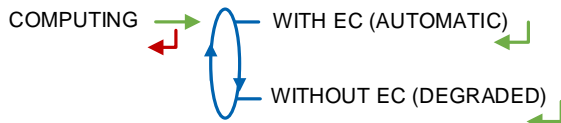


3.6.1 Sub-menu **COMPUTING (option)**



With active option.

In case of embedded computing failure, choose COMPUTING>WITHOUT EC (DEGRADED) to operate without embedded computing

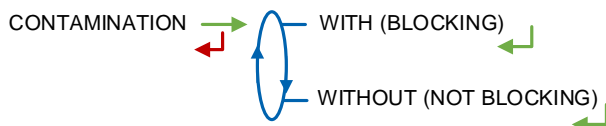


3.6.2 Sub-menu **CONTAMINATION (option)**



With active option.

In case of contamination of the manifold, choosing WITHOUT (NOT BLOCKING) is used to temporarily force a non-blocking operation in order to perform or complete an operation. At the end of this operation, the initial situation is restored.



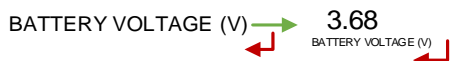
3.6.3 Sub-menu SOFTWARE

Display the software version of the boot loader and the app.



3.6.4 Sub-menu BATTERY VOLTAGE

Display the battery voltage value in volts.



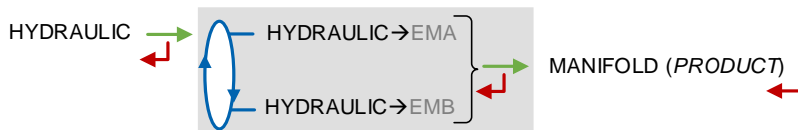
3.6.5 Sub-menu BLUE KEY NUMBER

Display the number of the blue key associated to the MICROCOMPT+



3.6.6 Sub-menu HYDRAULIC

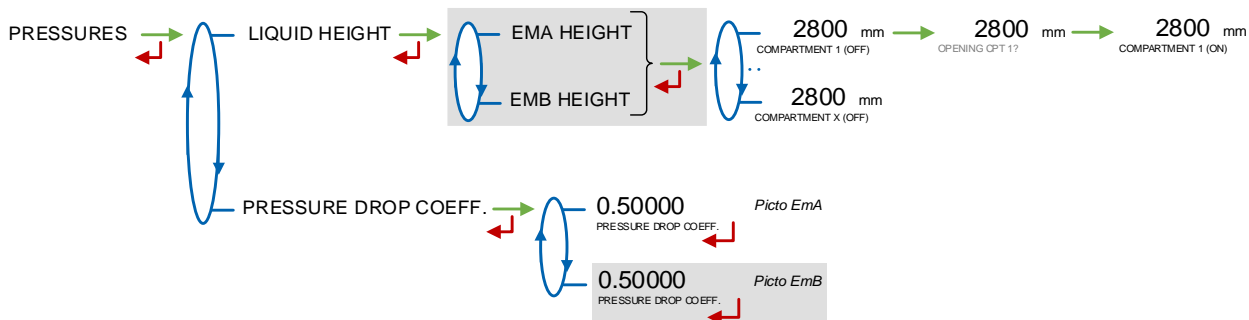
This menu indicates the product contained in the manifold.



3.6.7 Sub-menu PRESSURES

LIQUID HEIGHT: Gives the height of the product in each compartment

PRESSURE DROP COEFF: Gives the pressure drop coefficient.

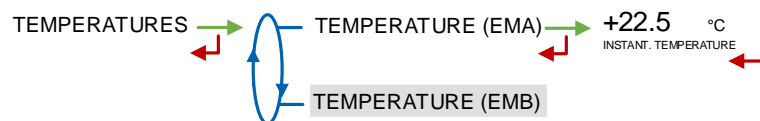


3.6.8 Sub-menu TEMPERATURES (option)



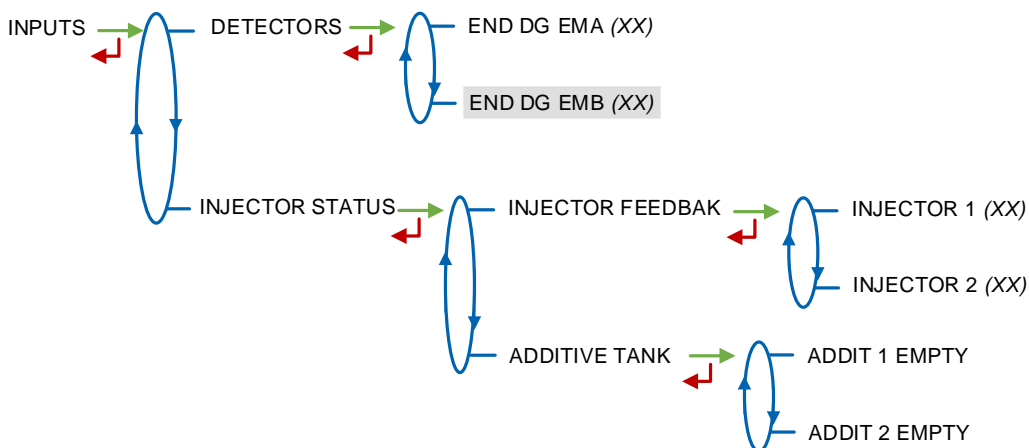
With active option.

Gives the product instantaneous temperature for EMA or for EMA and EMB.



3.6.9 Sub-menu INPUTS

Display the status of the inputs to ease maintenance.



DETECTORS: Status of the end-of-metering probes: DRY / WET / FAILURE

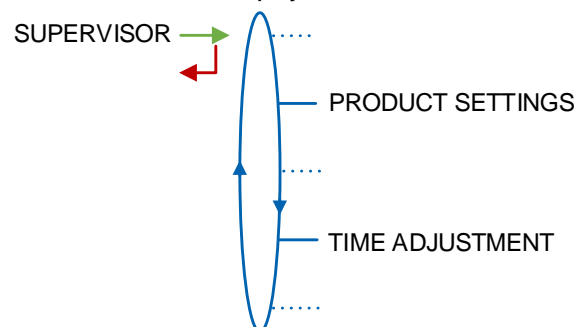
INJECTOR STATUS:

- **INJECTOR FEEDBACK:** Status of the injectors feedback: OFF/ON
- **ADDITIVE TANK:** Empty additive tanks: OFF/ON.

4 SET THE GRAVICOMPT MANIFOLD


Setup and configuration of the system are described in the MM 9008 Operating and Maintenance Manual. However, the most common operations performed by the owner operator, such as time adjustment or products setting, are briefly described below.

To access the setup, you must use an RFID key.



PRODUCT SETTINGS: The products are factory-set according to the list provided by the customer or during the commissioning of the system.

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 If you change the configuration of a product, make sure that its name and its type are consistent.

TIME ADJUSTMENT: You can adjust time ($\pm 2h$) one time a day.

5 SPECIFIC FEATURES

5.1 Contamination control

The GRAVICOMPT declares if a risk of pollution can occur. There's a mismatch between the selected product and the quality contained in the manifold. This alert does not prevent the product selection. However, if the blocking contamination feature is activated CONTAMINATION>BLOCKING C.→ON, the delivery is not possible.

Single product specific ticket:

1. Can be used as an invoice.
2. Once a delivery with a selected product has already been made, it will be imposed on the other delivery measurements.

6 CONNECTED FEATURES

The wireless connection enables the MICROCOMPT+ to communicate with an embedded computer or with a PC/tablet/portable device.

The connected functions of the MICROCOMPT+ are the following:

- ⇒ Incoming data flow processing
- ⇒ Management of the communication modules below

Communication modules are listed below:


- ⇒ Wi-Fi (IEEE 802.11 b/g/n (2.4GHz) **OR** Bluetooth Low Energy 4.1
- ⇒ GSM (2G, 3G, 4G) / GPS
- ⇒ RFID NFC which allows the reading of an RFID key to switch in SUPERVISOR mode
- ⇒ Ethernet Base 10/100

The GSM module associated to the GPS navigation system allows the device tracking. Two antennas are located outside the MICROCOMPT box.

7 ALARMS & TROUBLESHOOTING

7.1 Alarms

User alarms


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		DISPLAY	MEANING	ACTION
USER	COMMON	DELIVERY STOP	Intentional interruption of the discharge	Continue, stop or finish delivery or product return
		EMERGENCY SHUTDOWN	Emergency stop triggered by remote control	Continue, stop or finish delivery or product return
		EC COMM.DEFAULT	Communication problem with the embedded computing	Try again and switch to degraded mode if the problem persists. COMPUTING→WITHOUT EC (DEGRADE)
		PRINTER DEFAULT	Communication with the printer lost	Check the connections: cable, on-off switch and fuse
		The ticket is jammed	Jammed paper in the printer	Use the RELEASE button to eject the paper
		POWER SUPPLY PROBLEM	Power outage during operation	Check the cause Restore power supply if needed
		INCOHERENCE WAY A/B	Inconsistent choice for EMA/EMB circuit	Make sure the manual selection valves are well-positioned
		ADDITIVATION FAULT	Problem with the additive system (cannot be managed properly)	Check the additive system
		ADDITIVE Y LOW LEVEL	(Y=1 or 2) Low level of the additive tank	Fill the additive tank
		ADDITIVE Y CONTROL	(Y=1 or 2) Non-guaranteed injection of the additive rate	Check the hydraulic system
	EMX	EMX LOW FLOW DEFAULT	Flow<Qmin consecutively during 0,2*MMQ	Check the parameters and the hydraulic system valve, strainer, nozzle...)
		EMX HIGH FLOW DEFAULT	Flow>Qmax consecutively during 3 sec	Check the parameters / Reduce flowrate



Alarms which require the intervention of a repairer.

		DISPLAY	MEANING	ACTION
REPAIRATOR		ZERO FLOW DEFAULT	No metering after opening the gravity valve	Make sure the pulse emitter indicators are blinking and the wiring is well done / Change the pulse emitter if required
		EMX METERING PROBLEM	Inconsistency of metering channels	Make sure the pulse emitter indicators are blinking and the wiring is well done / Change the pulse emitter if required
		EMX PULSES PROBLEM	Problem with the metering pulses	Make sure the pulse emitter indicators are blinking and the wiring is well done / Change the pulse emitter if required
		EMX TEMPER. DEFAULT	Temperature determination failure T<Tmin or T>Tmax	If steady alarm, see a repairer for trouble shooting
		EMX K-FACTOR DEFAULT	Deviation between coefficients K1 and K2 greater than 0.5%	Change the low-flow coefficient (K1)
		EMX TOTALISER LOST	Totalisers integrity problem	Substitution of the backup battery
		EMX PRESSURE DEFAULT	Pressure sensor out of range 4/20 mA	If steady alarm, see a repairer for trouble shooting
		EMA DG-3001 DEFAULT	Problem with the gas detector	Use the maintenance menu to do a check of the detector status
		EMX CONVER. DEFAULT	Problem during volume conversion	Make sure the set density is consistent
	COMMON	LEAK DETECTED	Metering detection without measurement	Make sure the check valve is tight
		GAZ DETECTED	Detection of air during high flow delivery	See a repairer for troubleshooting
		DISPLAY DEFAULT	Integrity problem between the display and the display RAM proofreading	If steady alarm, substitution of the display card
		WATCHDOG DEFAULT	Triggering the watchdog function	Switch on-off the MICROCOMPT+ If steady alarm, substitution of the faulty card
		DATE AND TIME LOST	Problem with the clock	Set date and time
		DIARY DEFAULT	The events diary is lost	Acknowledge the alarm, make sure the date is ok If steady alarm, substitution of the backup battery
		MEMORY LOST	The measurements diary is lost	Acknowledge the alarm (enter then exit the metrological mode). If steady alarm, substitution of the backup battery
		MEMORY OVER LOADED	Measurement storage area saturated (too many registrations over 90 days)	Acknowledge the alarm (enter then exit the metrological mode) If steady alarm, substitution of the backup battery
		BOOT LOADER DEFAULT	Inconsistency between the app and the version of the boot loader	Match the application software with the boot loader
		PARAMETER LOST	No more integrity of a secured memory area (SUPERVISOR parameters, preset end coeff...)	Acknowledge the alarm If steady alarm, substitution of the backup battery
		EEPROM MEMORY FAIL	Loss of metrological parameters	Substitution of the AFSEC+ electronic card
		MEMORY FAULT	Integrity problem with memorized data	Substitution of the AFSEC+ electronic card
		FRAME WORK DEFAULT	Integrity problem with software	Substitution of the AFSEC+ electronic card

7.2 Wireless connectivity




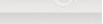






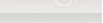





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Three tricolor LED on the MICROCOMPT+ front face are showing the wireless connection status as described in the table below.

AT POWER ON		
Flashing of the middle LED		
		Current update
	<u>Number of flashing</u>	
	1	No micro SD card
	2	No update folder
	3	No update file
	4	The update file does not open
	5	Problem writing to flash memory
	6	No app and no update file

IN OPERATION

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	Left-hand LED: Bluetooth or Wi-Fi		Middle LED: GSM / GPS		Right-hand LED: NFC (RFID)	
Steady light	Bluetooth 	Connection OK		Waiting for internet connection		
	Wi-Fi 			Internet connection OK		
		Waiting for initialization		Waiting for initialization		
Flashing light	Bluetooth 	Slow flashing: Waiting for connection	 every 2 seconds	GPS OK		Authentication of the RFID key OK
	Wi-Fi 	Rapid flashing: Communication in progress		Transfer in progress		RFID key not accepted, but authentication is ok
			 every 2 seconds	Coordinates not found		
		Initialization error		Initialization error		Authentication error of the RFID key

ADDENDUM 1: PRINTINGS

PARAMETERS: COMPLETE PRINTING

DUALTRONIQUE 4053+.001
VERSION 02.02.00 DATED 07.12.22
BOOT LOADER 05.00.00 (B6A97AA1)
PRINTED ON THE 07.12.22 AT 15:40
VEHICLE : AA-000-AA
REFERENCE : 01000

***** GENERAL PARAMETERS *****

PTO :OFF
PUMPED NOT COUNTED :OFF
OVERFILL PROBE :LOCAL
CUSTOMER PROBE :OFF
CONVERSION :VM
REF T.: 15.0°C D.T. REF: 15.0°C
COMPUTING :ON
PRODUCT CODE :ON
PRINTER :WITHOUT
TICKET EMA :MULTIPRO
TICKET EMB :STANDARD
CURRENCY :EUR
EJECT TICKET :ON
FORCED TICKET :OFF
SUMMARY :DETAILS
LANGUAGE CATALOG :xxx
SCHEDULING :OFF
START LOW FLOW VOLUME :10 L
END LOW FLOW VOLUME :30 L
DSPGI :OFF
LOADING PLAN :OFF
REMOTE CONTROL :OFF
BLOWING TIMING :5 s
WET DETECTOR TIMING :15 s
ANTI-VORTEX TIMING :5 s
BACKUP TEMP:+12.3°C

NAME LINE OR MEASURING SYSTEM:

EMA : EMA
EMB : EMB
NUMBER OF CPT: 6
CPT/TRAPPE/H.PD/EVENT/EM
1 /ON /0750/2 /A
2 /ON /0750/2 /A
3 /ON /0750/2 /A
4 /ON /0750/2 /B
5 /ON /0750/2 /B
6 /ON /0750/2 /B
CPT PLEXMI: N RETURN PLEXMI: N

DUALTRONIQUE 4053+.001
VERSION 02.02.00 DATED 07.12.22
BOOT LOADER 05.00.00 (B6A97AA1)
PRINTED ON THE 07.12.22 AT 15:40
VEHICLE : AA-000-AA
REFERENCE : 01000

***** EM PARAMETERS *****

EMA: GRAVICOMPT (1505)
MINIMUM QUANTITY : 200L
MIN FLOW: 04.00 / MAX: 050.00 M3/H
COEFFICIENT K1 :10.0000 IMP/L
FLOW Q1 (LF) : 0.000 M3/H
COEFFICIENT K2 :10.0000 IMP/L
FLOW Q2 (HF) : 0.000 M3/H
CORRECTION VISCO :+0.0%
TEMPERATURE :+22.5°C
MIN (-10.0°C) - MAX (+50.0°C)
CMA OPTION :OFF
MANIFOLD FILL TIMING :30 s
MANIF. DRAIN TIME :30 s
MANIFOLD QUANTITY :12L
FIXED QUANTITY :5L
CONVERSION FORMULA :API54A
STOP FLOW 0.000 M3/H WITH 0.2 L
PRESET END COEFF. :0.0992

EMB: GRAVICOMPT (1505)
MINIMUM QUANTITY : 200L
MIN FLOW: 04.00 / MAX: 050.00 M3/H
COEFFICIENT K1 :10.0000 IMP/L
FLOW Q1 (LF) : 0.000 M3/H
COEFFICIENT K2 :10.0000 IMP/L
FLOW Q2 (HF) : 0.000 M3/H
CORRECTION VISCO :+0.0%
TEMPERATURE :+22.5°C
MIN (-10.0°C) - MAX (+50.0°C)
CMA OPTION :OFF
MANIFOLD FILL TIMING :30 s
MANIF. DRAIN TIME :30 s
MANIFOLD QUANTITY :12L
FIXED QUANTITY :5L
CONVERSION FORMULA :API54A
STOP FLOW 0.000 M3/H WITH 0.5 L
PRESET END COEFF. :0.1700

DUALTRONIQUE 4053+.001
VERSION 02.02.00 DATED 07.12.22
BOOT LOADER 05.00.00 (B6A97AA1)
PRINTED ON THE 07.12.22 AT 15:40
VEHICLE : AA-000-AA
REFERENCE : 01000

***** ADDITIVES PARAMETERS *****

ADDITIVE INJ 1 :EMA
ADDITIVE RETURN :OFF
ADDITIVE LEVEL CTRL :OFF
ADDITIVE PULSE :0.5 s
ADDITIVE INJ 2 :EMB
ADDITIVE RETURN :OFF
ADDITIVE LEVEL CTRL :OFF
ADDITIVE PULSE :0.5 s

***** PRODUCT PARAMETERS *****

FOD+ (01/-) OFF CO+BA+A
EMA+EMB 20L(INJ1) 0840.0Kg/m3
UP:0000.0 EUR/M3 TTC TAX : 0020.0

FOD (02/-) OFF CO+BA+NA
EMA+EMB NON ADD 0840.0Kg/m3
UP:0000.0 EUR/M3 TTC TAX : 0020.0

GO+ (03/-) OFF NC+10+A
EMA+EMB 30L(INJ2) 0840.0Kg/m3
UP:0000.0 EUR/M3 TTC TAX : 0020.0

GO (04/-) OFF NC+10+NA
EMA+EMB NON ADD 0840.0Kg/m3
UP:0000.0 EUR/M3 TTC TAX : 0020.0

GNR+ (05/-) OFF CO+10+A
EMA+EMB NON ADD 0840.0Kg/m3
UP:0000.0 EUR/M3 TTC TAX : 0020.0

GNR (06/-) OFF CO+10+NA
EMA+EMB NON ADD 0840.0Kg/m3
UP:0000.0 EUR/M3 TTC TAX : 0020.0

SUMMARY:

DUALTRONIQUE 4053+.001
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SUMMARY OF DELIVERIES OF
 07.12.2022 (DAY 341)
 006 MEMORISED RESULTS

*** DAILY TOTALISERS ***

FOD+	(01):	00001400 L	+10,5°C
FOD	(02):	00000300 L	+11,3°C
GO+	(03):	00000000 L	+00,0°C
GO	(04):	00001090 L	+11,2°C
GNR+	(05):	00000500 L	+11,9°C
GNR	(06):	00000000 L	+00,0°C

TOTAL FROM 1 TO 6: 00003290 L

***** DAILY SUMMARY *****

HR	HR	NO	E	(L)	(°C)
START	END	MES	M	PROD	VOLUME
09:40	09:42	A01	A	FOD	00300
10:26	10:29	D02	A	FOD+	01000
10:38	10:40	A03	A	FOD+	00400
10:02	10:07	D04	A	GO	01000
11:29	11:31	P05	A	GO	00090
11:51	11:54	D06	A	GNR+	00500

(D) PRESET; (L) FREE; (V) DRAINING;
 (G) GRAVITY; (-) UNDEFINED

DUALTRONIQUE 4053+.001
 VERSION 02.02.00 DATED 07.12.22
 BOOT LOADER 05.00.00 (B6A97AA1)
 PRINTED ON THE 07.12.22 AT 15:40
 VEHICLE : AA-000-AA
 REFERENCE : 01000

SUMMARY OF DELIVERIES OF
 07.12.2022 (DAY 341)
 006 MEMORISED RESULTS

*** DAILY TOTALISERS ***

FOD+	(01):	00000300 L	094%
FOD	(02):	00001400 L	---
GO+	(03):	00001090 L	---
GO	(04):	00000000 L	---
GNR+	(05):	00000000 L	099%
GNR	(06):	00000500 L	---

TOTAL FROM 1 TO 6: 00003290 L

***** DAILY SUMMARY *****

HR	HR	NO	E	(L)	(%)
START	END	MES	M	PROD	VOLUME
09:40	09:42	A01	A	FOD	00300
10:26	10:29	D02	A	FOD+	01000
10:38	10:40	A03	A	FOD+	00400
10:02	10:07	D04	A	GO	01000
11:29	11:31	P05	A	GO	00090
11:51	11:54	D06	A	GNR+	00500

(D) PRESET; (L) FREE; (V) DRAINING;
 (G) GRAVITY; (-) UNDEFINED

With active option

TOTALISERS:

DUALTRONIQUE 4053+.001
 VERSION 02.02.00 DATED 07.12.22
 BOOT LOADER 05.00.00 (B6A97AA1)
 PRINTED ON THE 07.12.22 AT 15:40
 VEHICLE : AA-000-AA
 REFERENCE : 01000

***** TOTALISERS*****

TOTALISER EMA (VM) : 000056638 L

TOTALISER EMB (VM) : 000056638 L

FOD+	(01) :	00000399 L
FOD	(02) :	00000198 L
GO+	(03) :	00000000 L
GO	(04) :	00000999 L
GNR+	(05) :	00000000 L
GNR	(06) :	00000000 L
	(07) :	00001000 L
	(08) :	00000000 L
	(09) :	00000000 L
	(10) :	00000000 L
	(11) :	00000000 L
	(12) :	00000000 L
	(13) :	00000000 L
	(14) :	00000000 L
	(15) :	00000000 L
	(16) :	00000000 L

TOTAL FROM 1 TO 16 : 000002196 L
 NO ALLOCATED VOLUME : 00000008 L

Main display according to the configuration:
 VM, VB or blank (for masses)
 Unit: depending on the set scale interval

MULTI-PRODUCTS TICKET:

DUALTRONIQUE 4053+.001
 VERSION 02.02.00 DATED 07.12.22
 BOOT LOADER 05.00.00 (B6A97AA1)
 PRINTED ON THE 07.12.22 AT 18:05
 VEHICLE : AA-000-AA
 REFERENCE : 01000

***** DELIVERY *****

Delivery started measurement n°003

Compartment : 1
 Product : FOD+
 Measurement n° 1 : 499 L (VM)
 Temperature : +24.0°C
 Measurement n° 2 : 299 L (VM)
 Temperature : +24.0°C

 Total Cpt 1 : 798 L (VM)
 Compartment : 2
 Product : GO+
 Measurement n° 1 : 999 L (VM)
 Temperature : +24.0°C
 Compartment : 3
 Product : GNR
 Measurement n° 1 : 199 L (VM)
 Temperature : +24.0°C
 Measurement n° 2 : 299 L (VM)
 Temperature : +16.8°C
 Measurement n° 3 : 499 L (VM)
 Temperature : +13.4°C

 Total Cpt 3 : 997 L (VM)

In case of dispute, the measurement
 results stored by the main indicating device
 providing proof.

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RELATED DOCUMENTS

GU 7038	Operating guide GRAVICOMPT MANIFOLD
DI 004	Installation guide GRAVICOMPT MANIFOLD
MM 9008	Commissioning and maintenance manual DUAL TRONIQUE