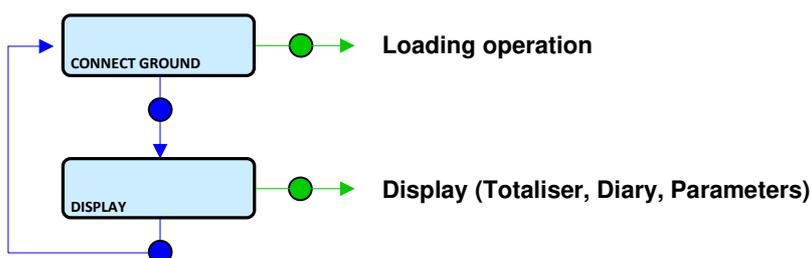




This document sketches out the main menus (please refer to operating manual MU 7036 EN for further information).

#### USING THE BUTTONS

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li><span style="color: red;">●</span> - Come back to the previous stage</li> <li><span style="color: red;">●</span> - Increment the blinking figure</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: blue;">●</span> - Choose the menu option</li> <li><span style="color: blue;">●</span> - Access to the following figure</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: green;">●</span> - Validate the displayed option</li> <li><span style="color: green;">●</span> - Validate the entry data</li> </ul> |
|--|--|--|



#### REMINDER:

VM: Volume measured at metering conditions

VB: Volume at base conditions (converted volume, usually V15)

MVT: Density at temperature, in  $\text{kg/m}^3$

CTL: Conversion coefficient

NOTE: If the MICROCOMPT+ communicates with a system via  $\mu$ Config, the message 'UCONFIG...' appears on the prompter

# RUN A LOADING OPERATION

## 1. PREPARE THE LOADING OPERATION



The displayed volume is the last loaded volume

### ▲ CONNECT THE GROUND

✎ Connect the ground



### ▲ CONNECT THE API PROBE

✎ Connect the API probe



Volume reset

### ▲ CONNECT THE VAPOR ARM

✎ Connect the vapor arm



### ▲ SET THE VOLUME (with manual preset)



- Change the blinking figure value
- Access to the following figure
- Validate the entry data

### ▲ START LOADING (with automatic preset)



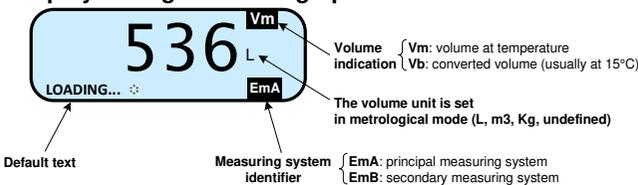
The displayed volume is the last loaded volume

## 2. CARRY OUT THE LOADING OPERATION

### ▲ START LOADING OPERATION



### Display during the loading operation:



### The loading operation may be interrupted by several situations:

#### ▶ APPEARANCE OF A FAULT AND DISPLAY OF AN ALARM



● Continue or stop the loading operation (§3 or §4)

#### ▶ INTENTIONAL INTERRUPTION OF THE LOADING OPERATION



● Continue or stop the loading operation (§3 or §4)

### ▲ DISPLAY LOADING INFORMATION

- Quantity EM1
- Quantity EM1+EM2 Downstream blender
- Flowrate — ● Instantaneous flow EM1+EM2 Downstream blender
  - Instantaneous flow EM1
  - Instantaneous flow EM2
- Temperature — ● Instantaneous temperature EM1 With active option
  - Instantaneous temperature EM2
- Pressure — ● Instantaneous pressure With active option
- Blending rate Blender
- Quantity — ● EMA Instantaneous MVT
  - With conversion
    - EMA Instantaneous reference MVT
    - EMA VM
    - EMA VB
    - EMA Mass
    - EMA CTL
  - EMB Instantaneous reference MVT
  - EMB VM
  - EMB VB
  - EMB Masse
  - EMB CTL

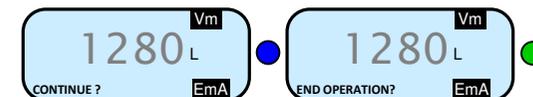
Back to normal display is automatic: DO NOT PRESS RED CLEAR BUTTON TO KEEP FROM INTERRUPTING DELIVERY.

## 3. CONTINUE THE LOADING OPERATION



● Start the loading operation §2

## 4. END THE LOADING OPERATION



### ▲ REMOVE THE VAPOR ARM

✎ Remove the vapor arm



### ▲ REMOVE THE API PROBE

✎ Remove the API probe



### ▲ REMOVE THE GROUND

✎ Remove the ground



The displayed volume is the last loaded volume

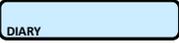
Back to main menu §1

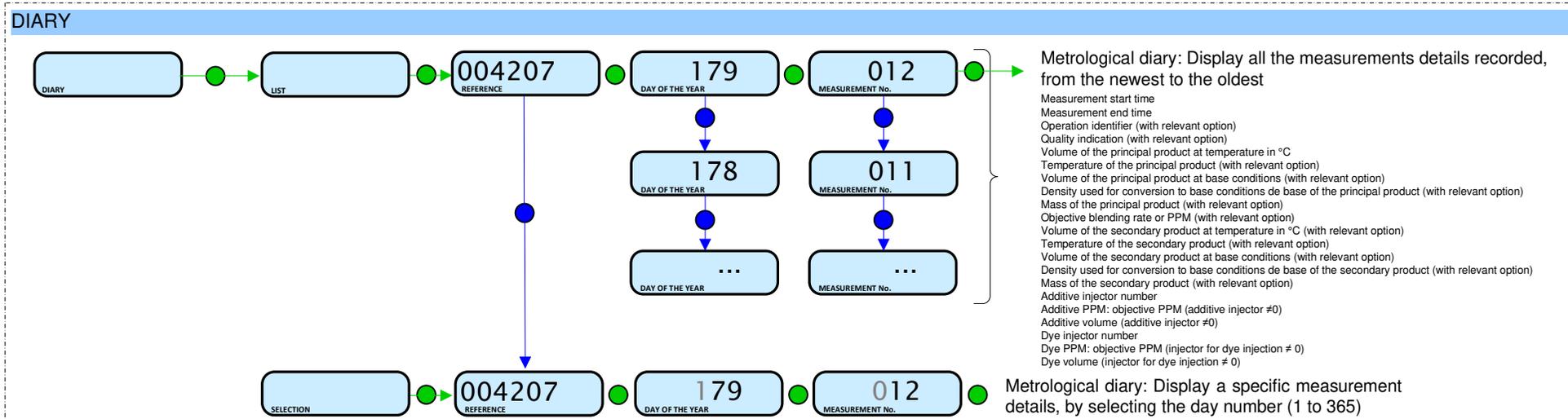
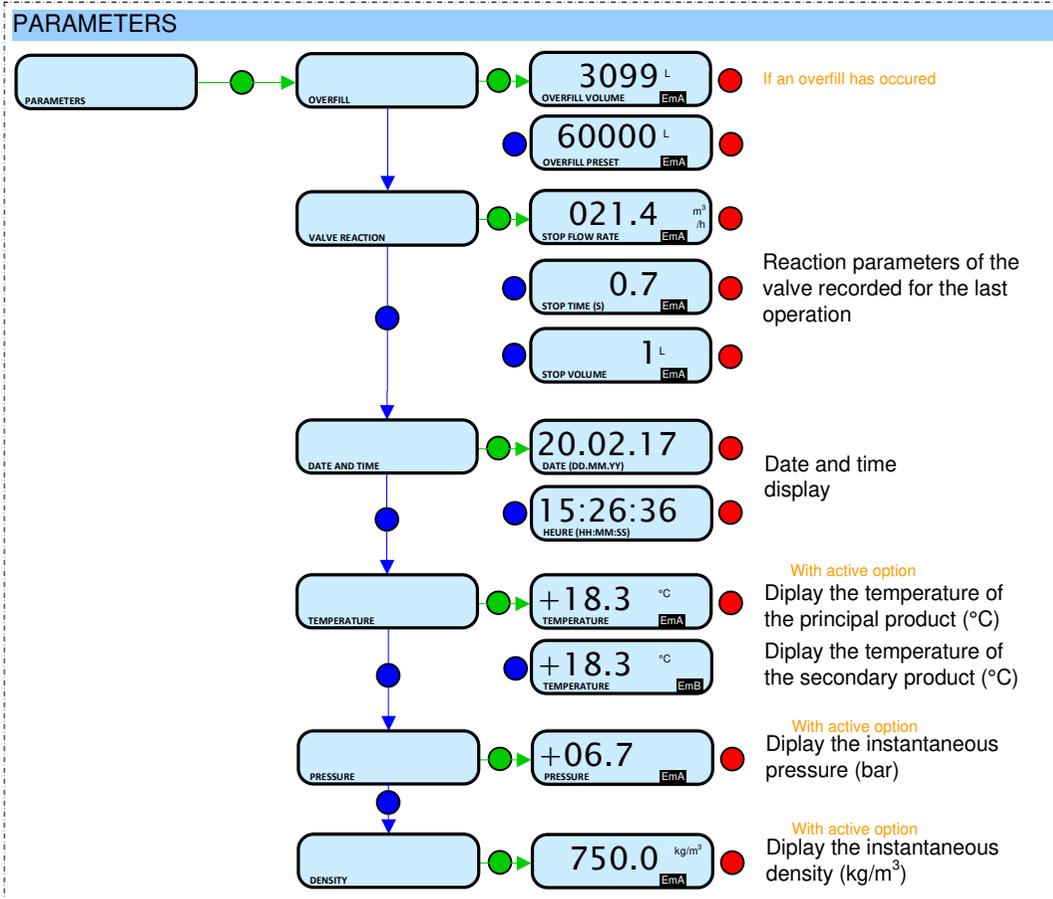
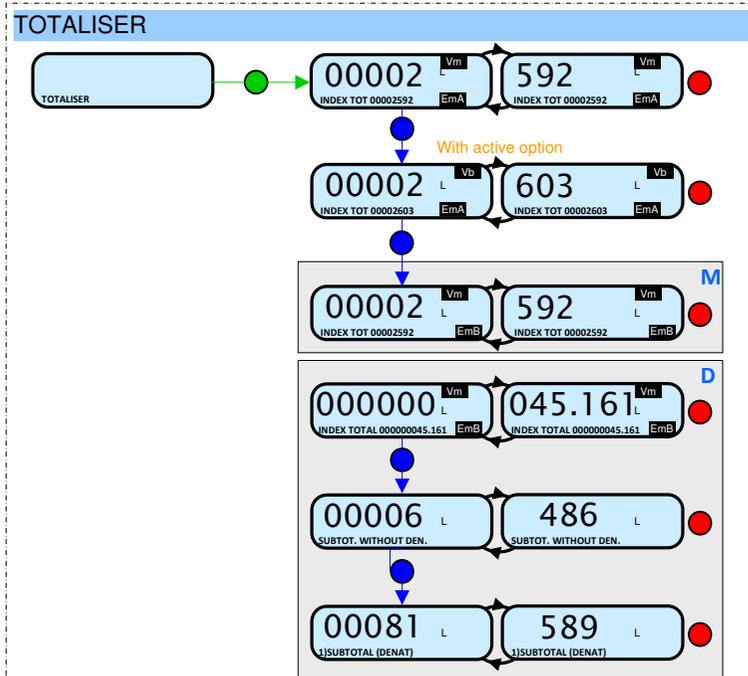
### MEANING OF SYMBOLS

- ▲ Mandatory action
- ▲ Optional action
- ▶ Event during loading operation
- ✎ Action by operator
- [B] Spécifiques menus depending on the measuring system: Blender / Denaturant
- [D]

# DISPLAY THE LOADING DATA

This menu is available in stand-by mode or during an intermediate stop of the loading operation.

-  → Display of the totaliser
-  → Visualization of the measurements information  
*With active option*
-  → Visualization of the parameters



# LIST OF ALARMS

DISPLAY	MEANING	ACTION
STOP LOADING	Intentional interruption of the loading operation	Continue or stop the loading operation
EMERGENCY STOP	Detection of an emergency stop	Check the status of the emergency stop
COMMUNICATION FAULT	Absence of communication network	Check the status on the control device
POWER SUPPLY PROBLEM	Power outage during discharge	Check the cause / Restore power supply
LOW FLOW FAULT	Low flowrate (less than minimum flowrate)	Check the parameters / Check the hydraulic system (valve, strainer, nozzle...)
HIGH FLOW FAULT	High flowrate (greater than maximum flowrate)	Check the hydraulic system (valve, pumping)
ZERO FLOW FAULT	Zero flow principal product	Check the hydraulic system (safety valve)
METERING PROBLEM	Metering problem with the principal measuring device	Check if the pulse transmitter is powered (red indicators)
OVERFILL FAULT	Over-filling of the compartment	Dry out the wet probe or end measurement
MANDATORY END	Measurement end is required	End operation
NO MORE AUTHORISATION	No more loading authorisation	Check the reason on the control device
GROUND FAULT	Loss of ground signal	Check the connection of the dead-man switch
VAPOR ARM FAULT	Loss of vapor arm signal	Check the connection of the vapor arm
TICKET FAULT	No ticket in the local mechanical printer	Check the ticket is well-positioned
DTQM FAULT	Stop requested by the DTQM system	Deal with the problem on the DTQM/LR system
LEAKAGE FAULT	Metering detection without measurement	Check the tightness of the loading valve
SAMPLING FAULT	Problem with the sampler	Check the status of the sampler
QUALITY SELECTION	No product selected	Choose a product
TANK EMPTY	Product unavailable	Fill the tank with product
GAS DETECTED	Detection of gas (principal product circuit EMA)	Make a purge (manual or automatic)
EMB METERING PROBLEM	Metering problem with the secondary measuring device	Check if the pulse transmitter is powered (red indicators)
EMB NO FLOWRATE	Zero flow (secondary measuring system)	Check the hydraulic system (safety valve)
BLENDING RATE FAULT	Inappropriate blending ratio	Check the blending rate set in metrological mode
EMB LEAKAGE FAULT	Metering detection without injection of secondary product	Check the hydraulic system of the denaturant
BLENDER FAULT	Problem with the denaturant electronic device	Check the denaturant electronic device
EMB UNDERFLOW	Flowrate less than the min. flowrate set in metrological mode	Check the hydraulic system (valve, strainer, nozzle...)
EMB HIGH FLOW	Flowrate greater than the max. flowrate set in metrological mode	Check the hydraulic system (valve, pumping)
EMB GAS FAULT	Detection of gas (secondary product circuit EMB)	Make a purge (manual or automatic)
BLENDER GAS FAULT	Detection of gas	Make a purge (manual or automatic)
DENATUR. TANK EMPTY	Denaturant unavailable	Fill the tank with denaturant
NO DYEING	Dyeing null	Check the additive hydraulic system
DYE LEAKAGE	Metering detection without injection	Check the additive hydraulic system
DYEING <-->	Dyeing rate too low	Check the additive hydraulic system
DYEING <+>	Dyeing rate too high	Check the additive hydraulic system
NO ADDITIVATION	Additivation null	Check the additive hydraulic system
ADDITIVE LEAKAGE	Metering detection without injection	Check the additive hydraulic system
ADDITIVATION <-->	Additivation rate too low	Check the additive hydraulic system
ADDITIVATION <+>	Additivation rate too high	Check the additive hydraulic system
ADDITIVATION FAULT	Problem with the additivation electronic device	Check the additivation electronic device
DOSING FAULT	Problem with the dosing of the additive	Check the additivation electronic device
ACDA PROBLEM	Problem with the ACDA (remote injector calculator)	Check the electronic device ACDA
INJECT. LEAKAGE	Metering detection on injector XX without injection	Check the additive hydraulic system

DISPLAY	MEANING	ACTION
LINE RINSING FAULT	Rinsing cycle not finished by the injector	Wait for the end of the rinsing cycle. Blocking default if the injector is for denaturant (see ANTI BLENDING configuration)
DIARY FAULT	Reset of the events diary	Acknowledge the alarm, check the date in supervisor mode
DISPLAY FAULT	Problem with display card	If steady alarm, substitution of the display card
WATCHDOG FAULT	Fault with display or power card or AFSEC+ card	If steady alarm, substitution of the faulty card
VOLUME CONVER. FAULT	Problem during conversion of volume	If steady alarm, substitution of the AFSEC+ electronic card
TOTALISER LOST	Loss of totaliser EMA	Substitution of the backup battery
EMB TOTALISER LOST	Loss of totaliser EMB	Substitution of the backup battery
TEMPERATURE FAULT	Temperature determination failure EMA	If steady alarm, see a reparator for trouble shooting
EMB TEMP FAULT	Temperature determination failure EMB	If steady alarm, see a reparator for trouble shooting
VALVE FAULT	Inappropriate reaction of the EMA control valve	If steady alarm, inspect the authorization valve
EMB VALVE FAULT	Inappropriate reaction of the EMB control valve	If steady alarm, check the control valve
FILTER FAULT	Filter fouling	The pressure switch and the product line must be cleaned
ANTI-POLLUTION VALVE	Mismatch between the status awaited and the actual status of the antipollution valve	Check the status of the antipollution valve
MISMATCH ESDV	Mismatch between the position feedback of the ESDV	Check the metrological configuration, inspect the ESDV
INJECT CONFIG FAULT	Disparity between metrological parameters values	Remove the disparity
DYEING CONFIG FAULT	Disparity between metrological parameters values	Remove the disparity
DENSITY L UNCONFORM.	Measure of the density meter lower than the density low set in supervisor mode	If blocking alarm: end delivery
DENSITY H UNCONFORM.	Measure of the density meter higher than the density high set in supervisor mode	If non blocking alarm: validate
PRINTER FAULT <+> <->	Problem with the IT2 mechanical printer	If steady alarm, inspect the printer
MEMORY LOST (PILE)	Loss of saved memory	Substitution of the backup battery
MEMORY LOST	Error on SIM memorization	Enter and exit the METRO mode / If steady alarm, substitution of the backup battery
COEFFICIENTS FAULT	Deviation between coefficient LF/HF greater than 0.5%	Modification of the low flow coefficient (K1)
PROM FAULT	Loss of software or resident integrity	Substitution of the AFSEC+ electronic card
RAM FAULT	Saved memory fault	Substitution of the AFSEC+ electronic card
EEPROM MEMORY LOST	Loss of metrological configuration	Substitution of the AFSEC+ electronic card
MEMORY OVER LOADED	Loading diary is full	Substitution of the AFSEC+ electronic card
DATE AND TIME LOST	Loss of date and time	Set date and time in supervisor mode (supervisor key)
POWER BOARD FAULT	Disparity between the software and the version of the power supply board	Remove the disparity
GAS DETECTOR FAULT	Problem with the EMA gas detector	Check the gas detector
GAS DETECTOR HIGH	Problem with the high-point gas detector	Check the gas detector
EMB DETECTOR FAULT	Problem with the EMB gas detector	Check the gas detector
DENSIMETER MIN FAULT	Measure of the density meter lower than the minimum density set in metrological mode	Check the metrological configuration
DENSIMETER MAX FAULT	Measure of the density meter higher than the maximum density set in metrological mode	Check the metrological configuration
NO PULSE DENSIMETER	Unable to receipt pulses from the frequency density meter	Check the density meter
VISCOSITY FAULT	Viscosity out of range	Check the curve in METROLOGICAL mode