

OPERATING GUIDE MICROCOMPT+ FOR BOTTOM LOADING

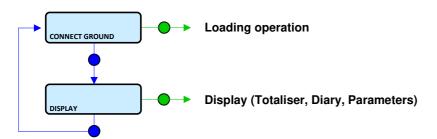
GU 7036_1 EN H

www.alma-alma.fr

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

USING THE BUTTONS

- Come back to the previous stage Increment the blinking figure
- Choose the menu option
 Access to the following figure
- Validate the displayed option
 Validate the entry data



REMINDER:

VM: Volume measured at metering conditions

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

MVT: Density at temperature, in kg/m³

CTL: Conversion coefficient

NOTE: If the MICROCOMPT+ communicates with a system via μ 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

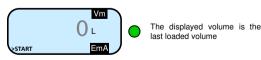
- ▲ CONNECT THE VAPOR ARM
- Connect the vapor arm



▲ 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)

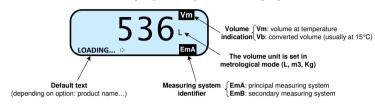


2. CARRY OUT THE LOADING OPERATION

▲ 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

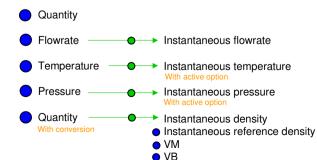


- Continue or stop the loading operation (§3 or §4)
- ► INTENTIONAL INTERRUPTION OF THE LOADING OPERATION



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

▲ DISPLAY LOADING INFORMATION



● CTL

Back to normal display is automatic: DO NOT PRESS RED

CLEAR BUTTON TO KEEP FROM INTERRUPTING DELIVERY.

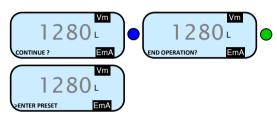
Mass

3. CONTINUE THE LOADING OPERATION



Start the loading operation §2

4. END THE LOADING OPERATION



- A REMOVE THE VAPOR ARM
- Remove the vapor arm



- A REMOVE THE API PROBE
 - Remove the API probe



- A REMOVE THE GROUND
 - Remove the ground



The displayed volume is the last loaded volume

Back to main menu §1

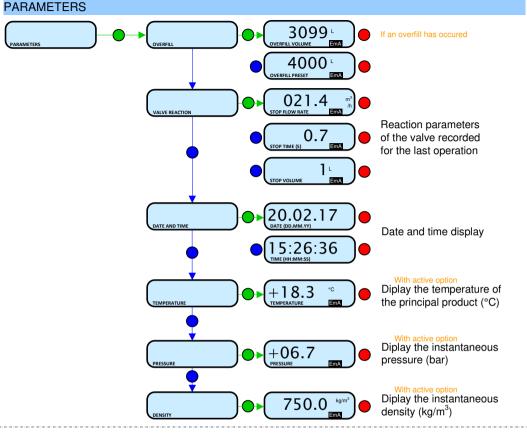
MEANING OF SYMBOLS

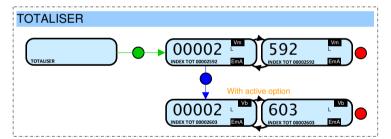
- Mandatory action
- Optional action
- ► Event during loading operation
- Action by operator

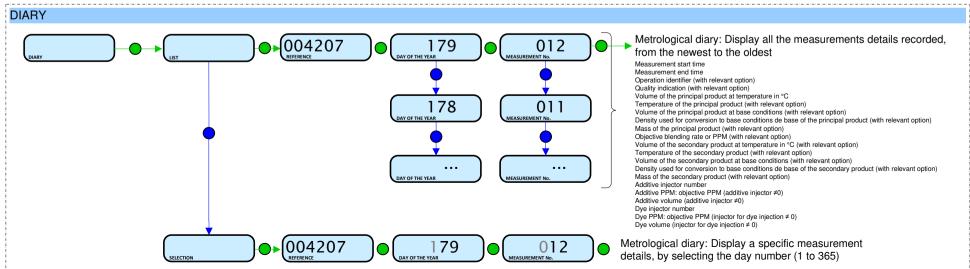
DISPLAY THE LOADING DATA

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









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
USER		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 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 OVERFILL FAULT	Metering problem with the principal measuring device Over-filling of the compartment	Check if the pulse transmitter is powered (red indicators) 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)
		NO ADDITIVATION ADDITIVE LEAKAGE	Additivation null Metering detection without injection	Check the additive hydraulic system Check the additive hydraulic system
		ADDITIVE ELAKAGE 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 FAULT	Problem with the ACDA (remote injector calculator)	Check the electronic device ACDA
		LINE RINSING FAULT	Rinsing cycle not finished by the injector	Wait for the end of the rinsing cycle
		INJECT. LEAKAGE	Metering detection on injector XX without injection	Check the additive hydraulic system
		DIARY FAULT	Reset of the events diary	Acknowledge the alarm, check the date in supervisor mode
		DISPLAY FAULT WATCHDOG FAULT	Problem with display card Fault with display or power card or AFSEC+ card	If steady alarm, substitution of the display 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
	ទ្ទ	TEMPERATURE FAULT	Temperature determination failure EMA	If steady alarm, see a reparator for trouble shooting
	NON BLOCKING	VALVE FAULT	Inappropriate reaction of the EMA control valve	If steady alarm, inspect the autorization 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
		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	If non blocking alarm: validate
REPARATOR		PRINTER FAULT <->	set in supervisor mode Problem with the IT2 mechanical printer	If steady alarm, inspect the printer
		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
	BLOCKING	EEPROM MEMORY LOST	Loss of metrological configuration	Substitution of the AFSEC+ electronic card
		MEMORY OVER LOADED DATE AND TIME LOST	Loading diary is full Loss of date and time	Substitution of the AFSEC+ electronic card 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
		DENSIMETER MIN FAULT	Measure of the density meter lower than the minimum density	Check the metrological configuration
			set in metrological mode Measure of the density meter higher than the maximum density	
		DENSIMETER MAX FAULT	set in metrological mode	Check the metrological configuration
		NO PULSE DENSIMETER VISCOSITY FAULT	Unable to receipt pulses from the frequency density meter Viscosity out of range	Check the density meter Check the curve in METROLOGICAL mode
		VISCOSITT FAULT	viscosity out or range	Official tile curve in will induduce thought indude