





- Choose the menu option
 Access to the following figure
- Validate the displayed optionValidate 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



CONNECT THE GROUND



8000 L MOVE THE ARM EMA

MOVE THE LOADING ARM

₩ Move the arm (right or left)



LOWER THE LOADING ARM

Lower the loading arm



▲ OPEN THE DEADMAN DEVICE

Open the deadman device

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



Pick up the arm

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

▶ INTENTIONAL INTERRUPTION OF THE LOADING OPERATION



Pick up the arm Continue or stop the loading operation (§3 or §4)

DISPLAY LOADING INFORMATION

Quantity Flowrate Instantaneous flowrate Temperature Instantaneous temperature With active option Pressure Instantaneous pressure With active option Quantity Instantaneous density With conversion Instantaneous reference density O VM • VB Mass • CTL

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

3. CONTINUE THE LOADING OPERATION



Lower the loading arm

Start the loading operation §2

4. END THE LOADING OPERATION



PUT THE LOADING ARM ASIDE
Put the loading arm aside



▲ REMOVE THE GROUND





▲ CLOSE THE DEADMAN DEVICE

Close the deadman device 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 PARAMETERS loading operation. 3099 If an overfill has occured Display of the totaliser -TOTALISER 60000 Visualization of the measurements information CDEILI DDECET DIARY Visualization of the parameters 112.5 PARAMETERS ALVE REACTIO Reaction parameters 0.8 of the valve recorded for the last operation 20.02.17 ATE AND TIME Date and time display 15:26:36 Diplay the temperature of +18.3the principal product (°C) ADERATIIE TOTALISER 00002 592 With active option Diplay the instantaneous +06.7EX TOT 00002 pressure (bar) With active option With active option 00002 603 Diplay the instantaneous 750.0 density (kg/m³) DIARY Metrological diary: Display all the measurements details recorded, 004207 179 012 from the newest to the oldest Measurement start time Measurement end time Operation identifier (with relevant option) Quality indication (with relevant option) Volume of the principal product at temperature in °C 178 011 Temperature of the principal product (with relevant option) Volume of the principal product at base conditions (with relevant option) Density used for conversion to base conditions de base of the principal product (with relevant option) Mass of the principal product (with relevant option) Objective blending rate or PPM (with relevant option) Volume of the secondary product at temperature in °C (with relevant option) Temperature of the secondary product (with relevant option) Volume of the secondary product at base conditions (with relevant option) Density used for conversion to base conditions de base of the secondary product (with relevant option) Mass of the secondary product (with relevant option) OAY OF THE YEAR Additive injector number Additive PPM: objective PPM (additive injector ≠0) Additive volume (additive injector ≠0) Dye injector number Dye PPM: objective PPM (injector for dye injection ≠ 0) Dye volume (injector for dye injection $\neq 0$) 004207 179 012 Metrological diary: Display a specific measurement details, by selecting the day number (1 to 365)

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 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)
			Over-filling of the compartment	Dry out the wet probe or end measurement
			Measurement end is required	End operation
			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
		TICKET FAULT	No ticket in the local mechanical printer	Check the ticket is well-positioned
		ABM POSITION FAULT	Loading arm in high-position	Check the loading arm position
		ABM OBJENT FAULT	Problem with the orientation of the arm in low-position	Check the loading arm orientation (left or right)
щ		OBIENTATION /2 BACKS	Detection of a loading arm oriented on both sides of the rack	Check the loading arm orientation (left or right)
S			The dead man switch is not connected	Check the dead man switch
Ξ			Metering detection without measurement	Check the tightness of the loading valve
			Broblem with the sampler	Check the status of the sampler
			No product sologied	
			Product vnavailable	Fill the tank with product
				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
			Problem with the dosing of the additive	Check the additivation electronic device
			Problem with the ACDA (remote injector calculator)	Check the electronic device ACDA
			Rinsing cycle not finished by the injector	Wait for the end of the rinsing cycle
		INJECI. LEAKAGE	Metering detection on injector XX without injection	Check the additive hydraulic system
			Reset of the events diary	Acknowledge the alarm, check the date in supervisor mode
	NON BLOCKING	DISPLAY FAULI	Problem with display card	If steady alarm, substitution of the display card
		WATCHDOG FAULT	Fault with display or power card or AFSEC+ card	It steady alarm, substitution of the faulty card
		VOLUME CONVER. FAULT	Problem during conversion of volume	It steady alarm, substitution of the AFSEC+ electronic card
		TOTALISER LOST	Loss of totaliser EMA	Substitution of the backup battery
		TEMPERATURE FAULT	Temperature determination failure EMA	If steady alarm, see a reparator for trouble shooting
			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	Check the status of the antipollution valve
			the actual status of the antipollution valve	
		DENSITY L UNCONFORM.	Measure of the density meter lower than the density low	If blocking alarm: end delivery
			Measure of the density meter higher than the density high	If non blocking alarm: validate
REPARATOR		DENSITY H UNCONFORM.	set in supervisor mode	
		PRINTER FAULT <->	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
		MEMOBYLOST	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
	G	EEPROM MEMORY LOST	Loss of metrological configuration	Substitution of the AFSEC+ electronic card
	Ϋ́Υ.	MEMORY OVER LOADED	Loading diary is full	Substitution of the AFSEC+ electronic card
	BLOC	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	Remove the disparity
			the power supply board	
		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	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