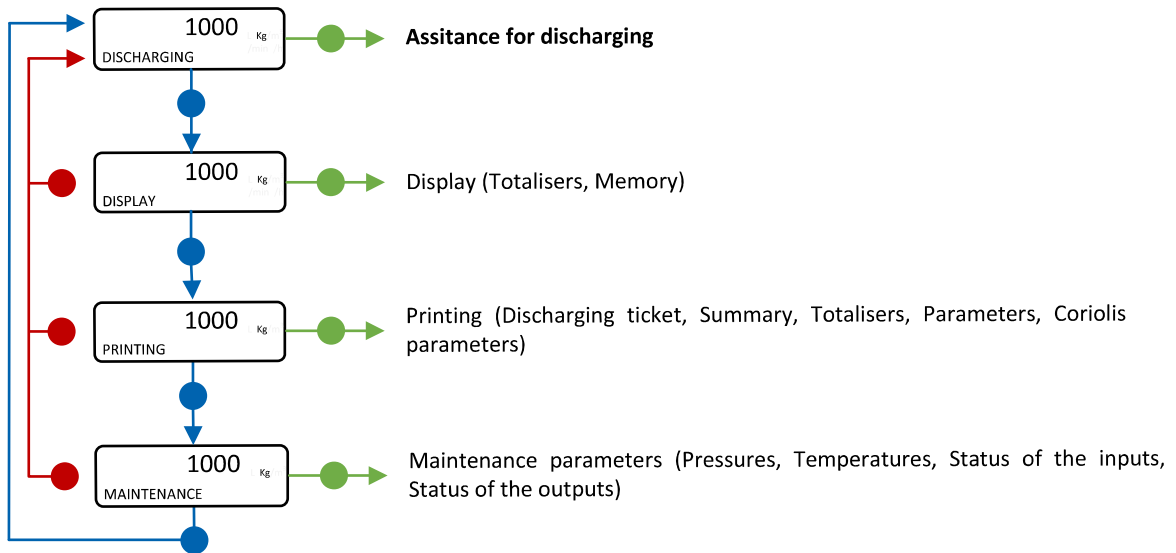














This document sketches out the main menus (please refer to operating manual MU 7096 EN for further information)

USING THE BUTTONS OF THE MICROCOMPT+

- - Come back to the previous step
 - Increment the blinking Digit
- - Choose the menu options
 - Select the next digit
 - Display the delivery information
- - Validate the menu option
 - Validate the data
 - Validate the default



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

DISCHARGING

1. PREPARE THE OPERATION

☞ Connect the hose(s)

▲ CHOOSE LEFT / RIGHT

Validate with ●
 ⚠ With active option

▲ PUMP COOLING

Pump temperature
 -169.7 °C
 COOLING (-160.4°C)
 Liquid temperature

☞ Carry out the required operations to cool the pipes in order to authorize discharging.

▲ REMOTE CONTROL

⚠ With remote control active

☞ Enable the remote control

2. CARRY OUT THE OPERATION

▲ START THE OPERATION

●

During the priming sequence, monitoring of P that must reach the threshold before time limit.

- When the threshold is reached before time limit, discharging can start.
- When the threshold is not reached before time limit, the alarm CAVITATION DEFAULT appears.

Display during discharging

536 Kg ← Mass
 DISCHARGING (-15°C)
 Liquid temperature

Interruption of the operation

▶ APPEARANCE OF A FAULT AND DISPLAY OF AN ALARM

● Continue (§3) or end (§4) the operation

▶ INTENTIONAL INTERRUPTION OF THE OPERATION

● Continue (§3) or end (§4) the operation

MEANING OF SYMBOLS

- ▲ Mandatory action
- ▲ Optional action
- ▶ Event during delivery
- ☞ Action by operator

Display the information

During an operation, the information that follow are available. Values are displayed 10 seconds

- INSTANTANEOUS FLOW (T/H)
- DELTAP (BAR)
- PUMP SUCCION
- PUMP OUTLET
- °C PRODUCT TEMPERATURE
- °C PUMP TEMPERATURE
- °C PUMP SEAL TEMP. ⚠ With active option
- kg/m³ DENSITY
- DRIVE GAIN

⚠ Back to normal display is automatic: DO NOT PRESS RED STOP BUTTON TO KEEP FROM INTERRUPTING OPERATION.

● Reset the deadman device ⚠ With active option: 'Deadman local' or 'Deadman distant degrade'

3. CONTINUE THE OPERATION

● kg CONTINUE OPERATION
 ● Start the operation (§2)

4. END THE OPERATION

kg END OPERATION ●
 kg CONFIRM END? ●
 ● (§3) Continue the operation

5. COMPLETE THE OPERATION

☞ Open the valves to drain the pipe(s)

SUCCION PRESSURE
 ● OUTLET PRESSURE

The operation ends when the low threshold of the suction and outlet pressures is reached.

●

☞ Close again the valves and disconnect the hose(s)

▲ PRINTING

●

Back to main menu

LIST OF ALARMS

	DISPLAY	MEANING	ACTION
USER	STOP OPERATION	Intentional interruption of the operation	Continue or end the operation
	EMERGENCY REQUEST	Detection of an emergency request	Check the emergency stop device
	PRINTER DEFAULT	Loss of communication with the printer	Check the connection cable, the status of the switch and the fuse
		Jammed paper in the printer	Use the RELEASE button to eject the paper
	POWER SUPPLY PROBLEM	Power outage during the operation	Check the cause
	LOW FLOW DEFAULT	Low flowrate (lower than minimum flowrate)	Check the hydraulic system
	HIGH FLOW DEFAULT	High flowrate (greater than maximum flowrate)	Reduce flowrate
	REMOTE CONTROL DEF.	No authorization	Check the function of the remote control
REPARATOR BLOCKING	DEADMAN DEFAULT	The deadman device is not connected	Check the deadman device
	METER COMM DEFAULT	Loss of communication with the meter	Check the connections and the status of the meter
	TT1 PUMP DEFAULT	The temperature probe is not connected	Check the connections and the status of the temperature probe
	TT2 SEAL DEFAULT	The temperature probe is not connected	Check the connections and the status of the temperature probe
	PUMP SEAL DEFAULT	The pump seal temperature threshold is exceeded	If steady alarm, see a reparator for trouble shooting
	PUMP GLAND TEMP DEF.	The temperature measurement of the pump cable gland is not correct	If steady alarm, see a reparator for trouble shooting
	DEGASSING TEMP. DEF.	The temperature measurement of the degassing pot is not correct	If steady alarm, see a reparator for trouble shooting
	COOLING DEFAULT	The temperature of the pump and the Coriolis are greater than the set threshold	Analyze the cause Repeat the cooling sequence if required
	CAVITATION DEFAULT	The pump pressure delta is not correct	Check the circuit pressure, If steady alarm, see a reparator for trouble shooting
	DEFAULT DRIVE GAIN	The drive gain threshold is exceeded	If steady alarm, see a reparator for trouble shooting
	PT1 PRESSURE DEFAULT	Problem with the PT1 pressure transmitter	Check the PT1 pressure transmitter status
	PT2 PRESSURE DEFAULT	Problem with the PT2 pressure transmitter	Check the PT2 pressure transmitter status
	PUMP GAS DEFAULT	Gas detection in the engine compartment of the pump	If steady alarm, see a reparator for trouble shooting
	MIN DENSITY DEFAULT	Measured value lower than the minimum value set in metrological mode	Check the metrological settings
	MAX DENSITY DEFAULT	Measured value greater than the maximum value set in metrological mode	Check the metrological settings
	TOTALISER LOST	Problem with the totalisers integrity	Substitution of the backup battery
	DISPLAY DEFAULT	Mismatch between displayed data and re-reading of the display memory	If steady alarm, substitution of the display board
	WATCHDOG DEFAULT	The watchdog function is triggered	Switch off-on the MICROCOMPT+ If steady alarm, substitution of the faulty board
	DATE AND TIME LOST	Problem with the clock	Set new date and time
	DIARY FAULT	Reset of the events diary	Acknowledge the alarm and check the date If steady alarm, substitution of the backup battery
	MEMORY LOST	Loss of measurements diary	Acknowledge the alarm (enter and exit the METRO mode) If steady alarm, substitution of the AFSEC+ electronic board
	MEMORY OVER LOADED	The measurement storage is saturated (too many records over the last 90 days)	Acknowledge the alarm (enter and exit the METRO mode) If steady alarm, substitution of the AFSEC+ electronic board
	BOOT LOADER DEFAULT	Mismatch between the application software and the resident software version	Matching the application software with the resident software
	PARAMETER LOST (BAT)	Loss of supervisor parameters	Acknowledge the alarm If steady alarm, substitution of the backup battery
EEPROM MEMORY FAIL	Loss of metrological parameters	Substitution of the AFSEC+ electronic board	
RAM DEFAULT	Problem with the integrity of the saved memory data	Substitution of the AFSEC+ electronic board	