
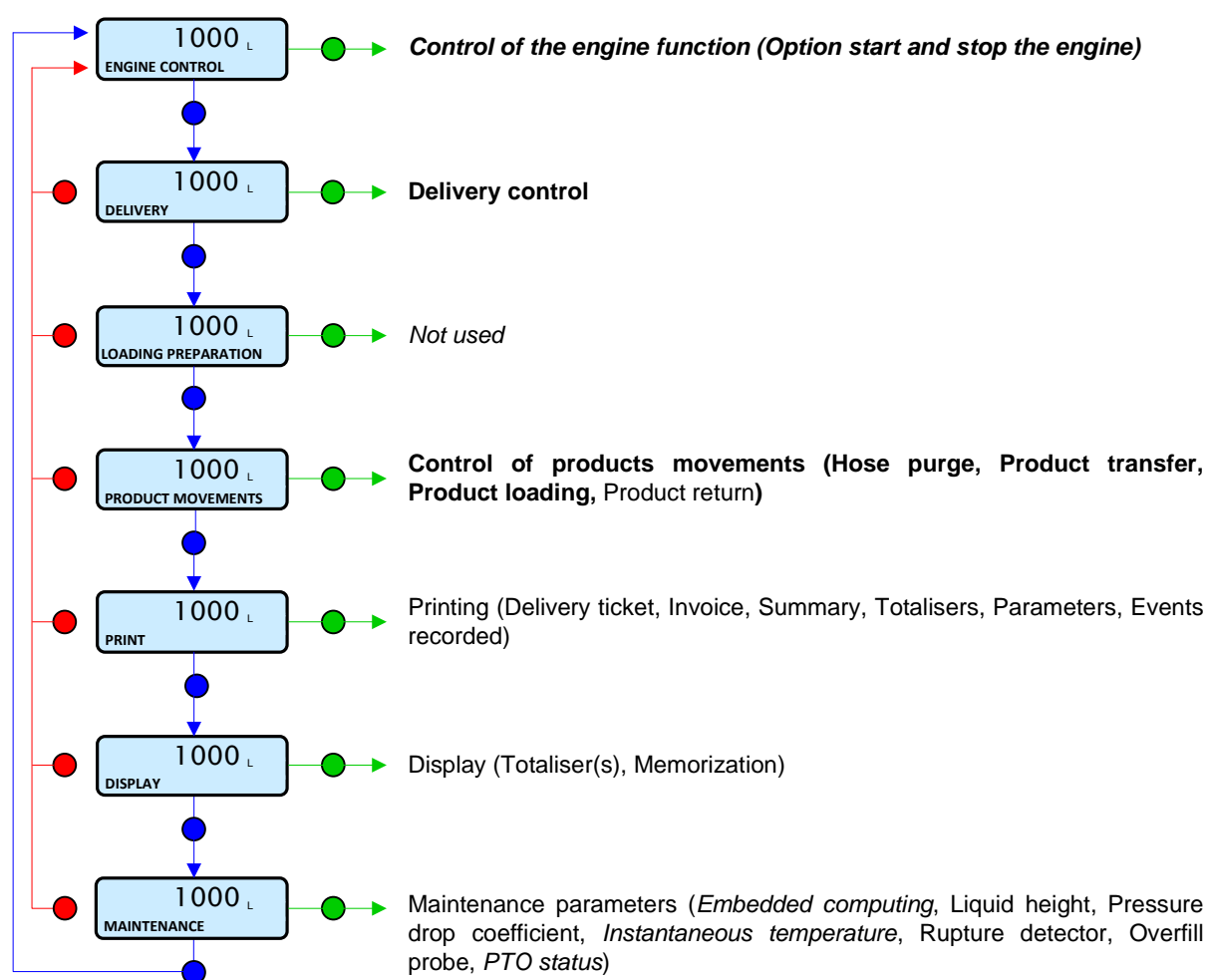


|   |   |  |
|---|---|--|
|  | <b>OPERATING GUIDE</b><br><b>CMA TRONIQUE</b> | GU 7034 EN E<br><a href="http://www.alma.alma.fr">www.alma.alma.fr</a> |
|---|---|--|

This document sketches out the main menus (please refer to operating manual MU 7034 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



# RUN A DELIVERY

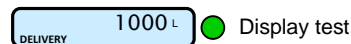
## 1. POWER UP AND START THE ENGINE

Power up (battery isolation switch)

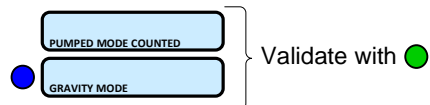


● Back to DELIVERY menu

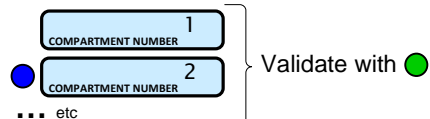
## 2. PREPARE THE DELIVERY



▲ SELECT THE DISTRIBUTION LINE ⚠ with active option



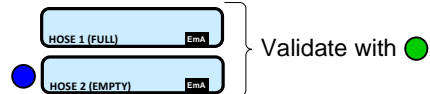
▲ CHOOSE THE COMPARTMENT ⚠ with active option



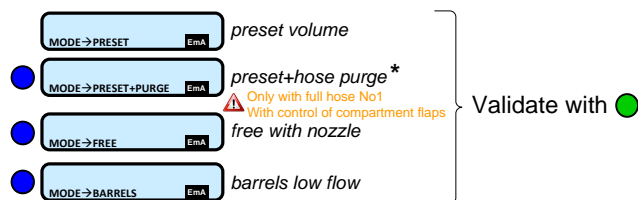
▲ CHOOSE THE PRODUCT



▲ SELECT THE DISTRIBUTION OUTLET ⚠ with active option



▲ SELECT THE DISTRIBUTION MODE



\*With the distribution mode PRESET+PURGE choose the product and the compartment used for the purge.

▲ SET THE VOLUME ⚠ with PRESET or PRESET+PURGE ORANGE



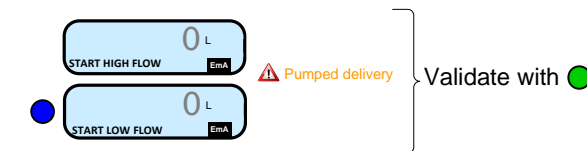
- Change the blinking figure value
- Access to the following figure
- Validate the entry data

▲ ENGAGE THE PUMP ⚠ with active option

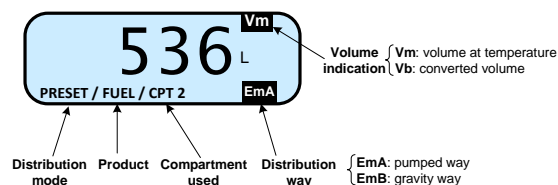


## 3. CARRY OUT THE DELIVERY

▲ START THE DELIVERY



Display during delivery:



Distribution mode Product Compartment used Distribution way  
EmA: pumped way  
EmB: gravity way

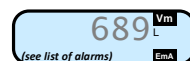
*The delivery may be interrupted by several situations:*

► THE COMPARTMENT IS EMPTY



- Choose another compartment
- Start the delivery §3

► APPEARANCE OF A FAULT AND DISPLAY OF AN ALARM



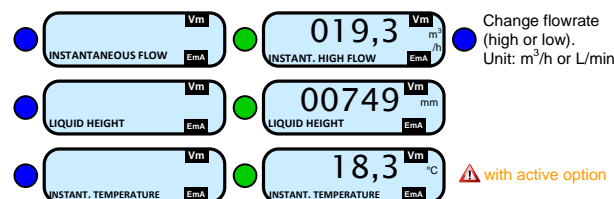
● Continue/suspend (§4) or end (§5) the delivery

► INTENTIONAL INTERRUPTION OF THE DELIVERY



● Continue/suspend (§4) or end (§5) the delivery

▲ DISPLAY DELIVERY INFORMATION



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

## 4. CONTINUE OR SUSPEND THE DELIVERY

▲ CONTINUE THE DELIVERY



● Start the delivery §3

▲ SUSPEND THE DELIVERY TO MOVE THE VEHICLE

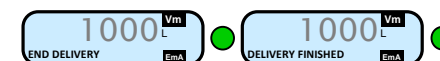


- Choose the compartment ⚠ with active option
- Remove the pump
- Start the delivery §3

After having moved the vehicle

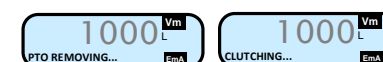
## 5. END THE DELIVERY

▲ END THE DELIVERY

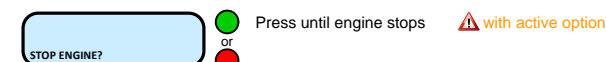


- Move the vehicle (§4)
- Continue the delivery (§4)

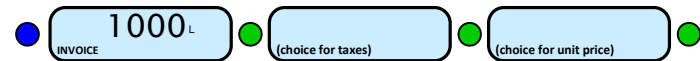
▲ REMOVE THE PUMP



## 6. STOP THE ENGINE



## 7. PRINT THE DELIVERY DOCUMENTS



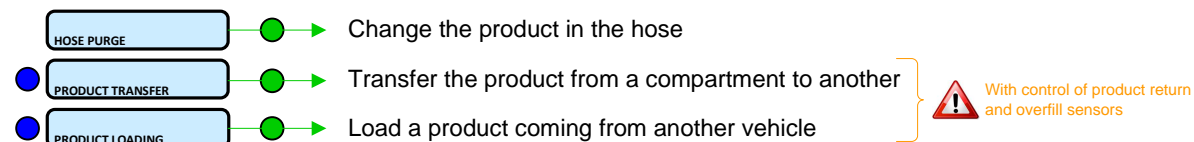
Printing of invoice  
Printing of cheque

- Back to main menu

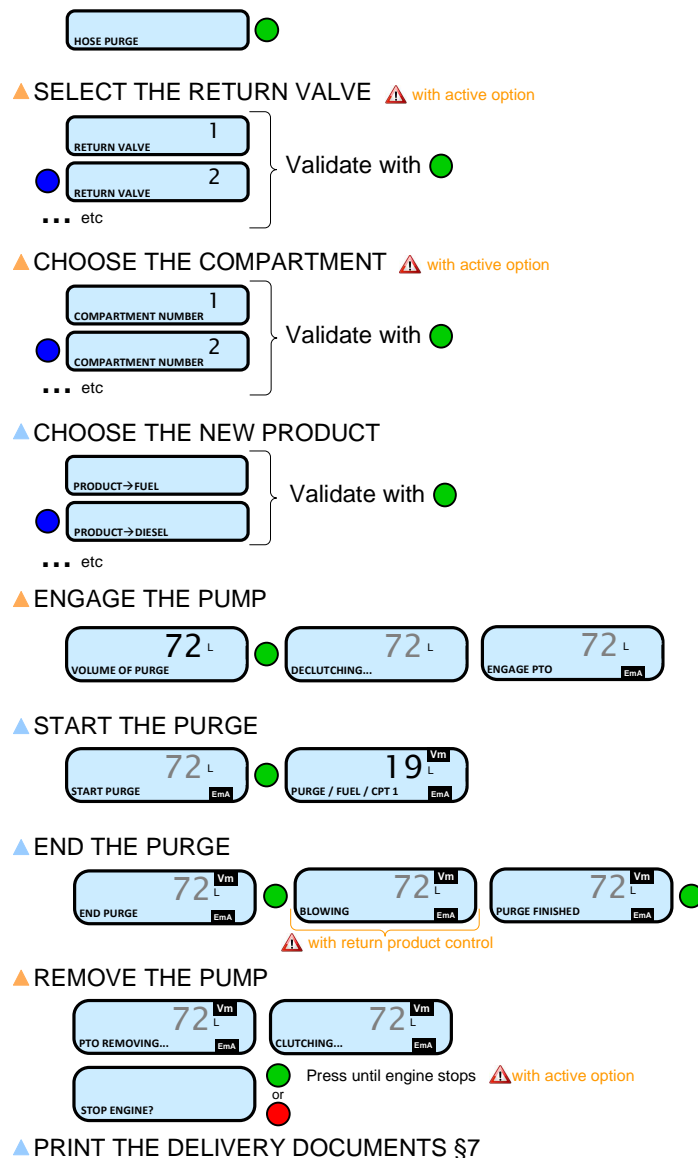
### MEANING OF SYMBOLS

- ▲ Mandatory action
- ▲ Optional action (depends on configuration choosen)
- Event during delivery
- 👤 Action by operator

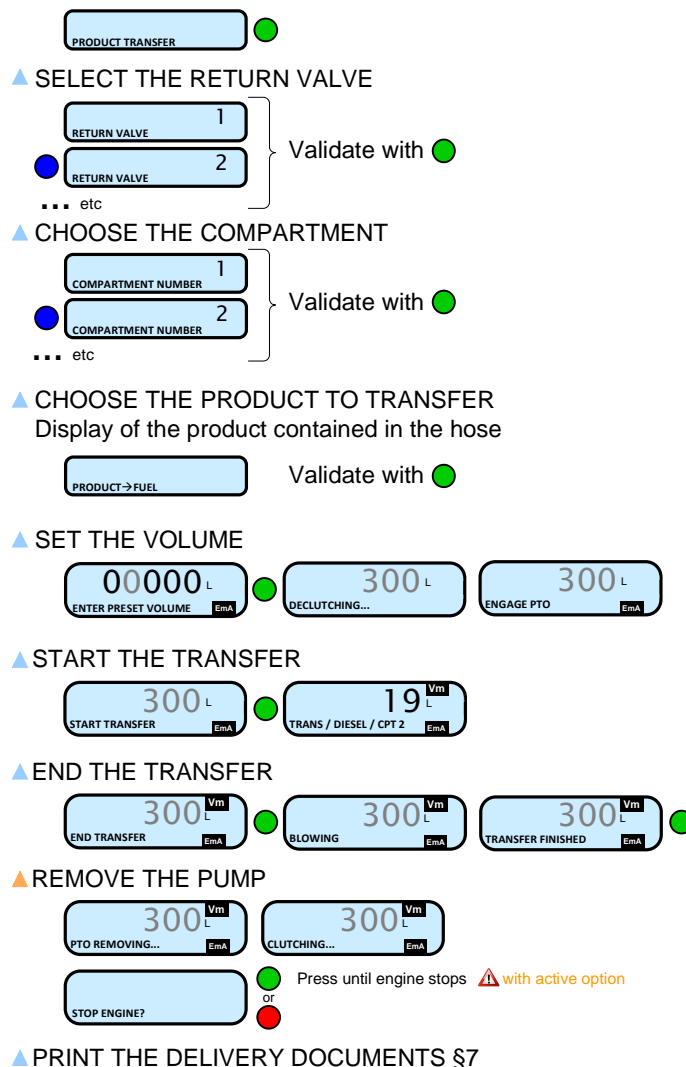
# RUN A PRODUCT MOVEMENT



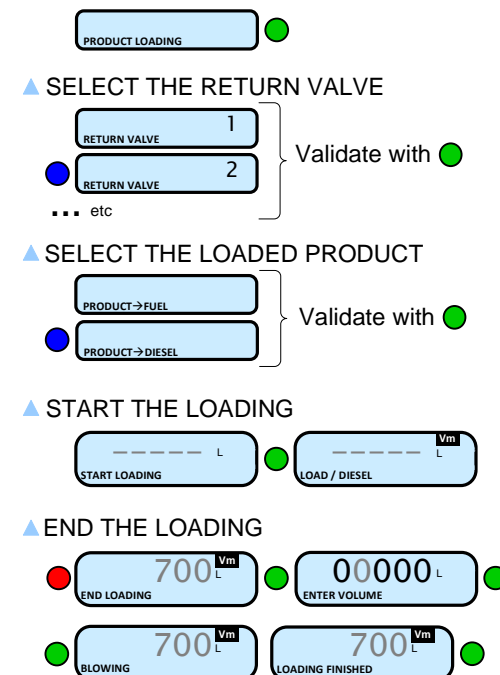
## HOSE PURGE



## PRODUCT TRANSFER



## PRODUCT LOADING



### MEANING OF SYMBOLS

- ▲ Mandatory action
- ▲ Optional action (depends on configuration chosen)
- ▶ Event during delivery
- 👤 Action by operator

# LIST OF ALARMS

FORM DOC 124 A

|           |                   | DISPLAY               | MEANING   | ACTION   |
|-----------|-------------------|-----------------------|---|--|
| USER      | ALL               | STOP DISCHARGE        | Intentional interruption of discharge                 | Continue, stop or finish the discharge   |
|           |                   | PRINTER FAILURE       | Communication with the printer lost                   | Check the connection cable, on-off switch and fuse   |
|           |                   | POWER SUPPLY PROBLEM  | Power outage during discharge                         | Check the cause / Restore power supply   |
|           |                   | ZERO FLOW DEFAULT     | Zero flow   | Check if the pulse transmitter is powered (red indicators)   |
|           |                   | LOW FLOW DEFAULT      | Low flowrate (less than 4m <sup>3</sup> /h)           | Check the parameters / Check the hydraulic system (valve, strainer, nozzle...)   |
|           |                   | HIGH FLOW DEFAULT     | High flowrate (greater than maximum flowrate)         | Check the parameters / Reduce flowrate   |
|           |                   | DIARY DEFAULT         | Reset of the events diary                             | Acknowledge the alarm, check the date in supervisor mode (supervisor key)  |
|           | PUMPED            | INCOHERENT SIGNAL     | Coherence failure in metering lines                   | Check the position of the manual selection valves  |
|           |                   | EMA METERING PROBLEM  | Metering problem with the measuring device            | Check if the pulse transmitter is powered (red indicators),<br>if not check the wiring / Change the sensor if required |
|           |                   | PTO DEFAULT           | Coherence failure with power take-off                 | Check the power take-off status in driver's cab  |
|           |                   | OVERFILL DEFAULT      | Overfilling during a product movement                 | Transfer product in another compartment  |
|           |                   | RUPTURE DG DEFAULT    | Rupture detector failure                              | Use the maintenance mode to check the status of the detector   |
|           |                   | PURGE NOT FINISHED    | Purge of manifold (and/or hose) not finished          | Finish the purge   |
|           |                   | FAIL                  | DSPGI ON, communication failure                       | Check the DSPGI device   |
| REPARATOR | FLEXI<br>TRONIQUE | ?????                 | DSPGI ON, drum located between 2 positions            | Check the drum position of the related compartment   |
|           |                   | UNDEF                 | DSPGI ON, product not set in SUPERVISOR mode          | Check the products setting   |
|           | FLEXI<br>TRONIQUE | EMB METERING PROBLEM  | Metering problem with the measuring device            | Check if the pulse transmitter is powered (red indicators),<br>if not check the wiring / Change the sensor if required |
|           |                   | GAS DETECTOR DEFAULT  | Gas detector failure                                  | Use the maintenance mode to check the status of the detector   |
|           | ALL               | DISPLAY DEFAULT       | Problem with display card                             | If steady alarm, substitution of the display card  |
|           |                   | WATCHDOG DEFAULT      | Fault with display or power card or AFSEC+ card       | Switch on-off the Microcompt+ /<br>If steady alarm, substitution of the faulty card                                    |
|           |                   | VOLUME CONVER DEFAULT | Problem during conversion of volume                   | If steady alarm, substitution of the AFSEC+ electronic card  |
|           | PUMPED            | TOTALISER 1 LOST      | Loss of totalizer                                     | Substitution of the backup battery   |
|           |                   | PRESSURE DEFAULT      | Pressure determination failure                        | If steady alarm, see a reparator for trouble shooting  |
|           |                   | TEMPERATURE 1 DEFAULT | Temperature determination failure                     | If steady alarm, see a reparator for trouble shooting  |
|           | FLEXI<br>TRONIQUE | TOTALISER 2 LOST      | Loss of totalizer                                     | Substitution of the backup battery   |
|           |                   | TEMPERATURE 2 DEFAULT | Temperature determination failure                     | If steady alarm, see a reparator for trouble shooting  |
| REPARATOR | BLOCKING          | MEMORY LOST (PILE)    | Loss of saved memory                                  | Substitution of the backup battery   |
|           |                   | MEMORY LOST           | Error on SIM memorization                             | Enter and exit the METRO mode /<br>If steady alarm, substitution of the backup battery                                 |
|           |                   | DATE AND TIME LOST    | Loss of date and time                                 | Set date and time in supervisor mode (supervisor key)  |
|           |                   | COEFFICIENTS DEFAULT  | Deviation between coefficient LF/HF greater than 0.5% | Modification of the low flow coefficient (K1)  |
|           |                   | PROM DEFAULT          | Loss of software or resident integrity                | Substitution of the AFSEC+ electronic card   |
|           |                   | RAM DEFAULT           | 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    | SIM memory full                                       | Substitution of the AFSEC+ electronic card   |