

USER MANUAL**MU 7105 EN A
MINICOMPT**

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1 GENERAL PRESENTATION AND DESCRIPTION

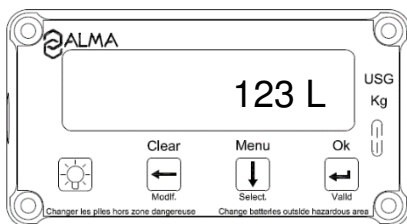
The MINICOMPT is an electronic device for measured distribution of refined hydrocarbons. The operating temperature is between -20°C and +40°C.

The association of a MINICOMPT and an ADRIANE DN 32-25 232 turbine measuring device is a meter called MOBICOMPT. This autonomous and bi-directional meter is made for accurate measures at low flow, from 2 to 25m³/h.

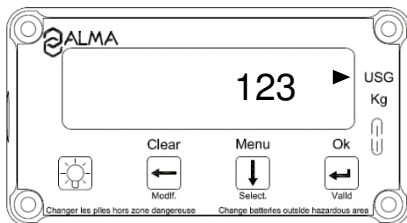
The MINICOMPT performs the functions that follow:

- ⇒ Acquisition and processing of the pulses from the pulse emitter or from the electronic card's coils
- ⇒ Calculation of volumes in liters
- ⇒ Memorization and proofread of measurement information. The maximum memorization period is 999 recordings for a day
- ⇒ Totalizer index. Three totalizers record the metered volume, the loaded volume, the volume on stock
- ⇒ Stock keeping: constantly monitor the product quantity
- ⇒ Conversion in mass (Kg) after recording of the product density
- ⇒ Conversion in American gallons (USG) after recording of the conversion coefficient

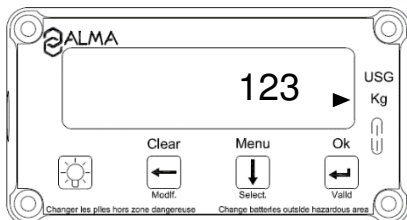
The MINICOMPT has a LCD backlight protected by a glass to display measurement information which can be read from the user interface.



Display the volume in liters: the L-pictogram is displayed










Display the volume in American gallons: the arrow-pictogram located on the right hand of the display screen is used to point out USG



Display the mass in kilograms: the arrow-pictogram located on the right hand of the display screen is used to point out Kg

The MINICOMPT has a 4-keys keyboard:

		Lights the display during 10 seconds
Clear  Modif.		Normal mode: back to previous quantity METROLOGICAL mode: increment the flashing figure when imputing a value or return to previous menu
Menu  Select.		Normal mode, metering off: select the menu Normal mode, metering on: display the values (immediate flow, temperature) Metrological mode: select the figure to be modified or select the menu
Ok  Valid		Normal mode: validate the selected menu or value Metrological mode: validate the displayed value or the selected menu In case of default: acknowledge the default

2 OPERATING RECOMMENDATIONS

Apart from calibration operations, there is no adjustment or specific maintenance precautions.

The MINICOMPT is powered by two batteries. The display 'bAttErY' indicates that the batteries must be changed. Batteries must be changed in a non-explosive area. **NOTE:** Only approved persons are permitted to remove the seal.

Proceed to the substitution of the batteries as follows and make sure polarization is ok:

- ⇒ Remove the first one and put a new battery
- ⇒ Remove the second one and put a new battery



Warning: Removal of both batteries leads to loose date and time


The UNI ATEX certification requires the batteries:

- ⇒ Lithium battery 3.6V SAFT LS14500 C
- ⇒ Lithium battery 3.6V SONNENSCHNEIN SL760 – Recommended by ALMA

3 OPERATION

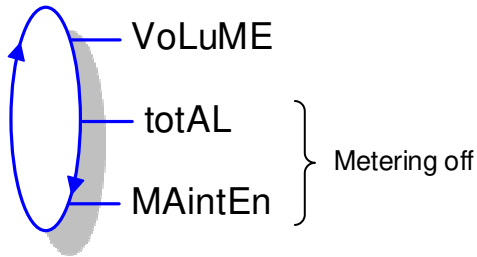
The MINICOMPT has two operation levels: the USER mode for operating: measurement, visualization, maintenance and the METROLOGICAL mode for the configuration of the device.

You must configure the MINICOMPT during commissioning and sometimes during metrological controls. The configuration parameters can only be modified after the processor configuration switch on the electronic card has been switched over. **NOTE:** Only approved persons are permitted to remove the seal.

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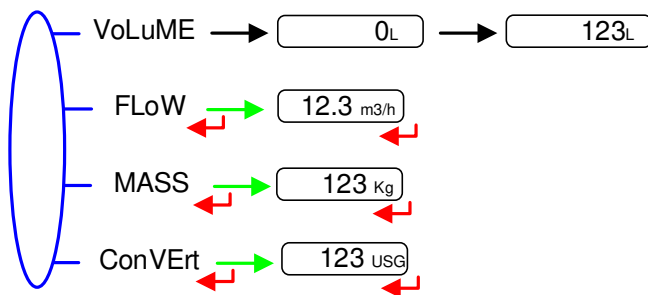
4 USE THE MINICOMPT: USER MODE

The MINICOMPT can be either ON or OFF metering.

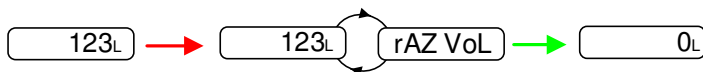


4.1 Menu VOLUME – VoLuME

This menu is used to display the metered or the loaded volume and the quantities related to the measurement:



At zero flow conditions, you can reset the volume displayed by following the procedure below. This ends the measurement.



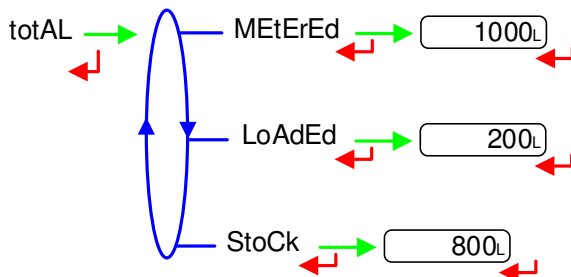
4.2 Menu TOTALISER - totAL

This menu is used to display the information that follow:

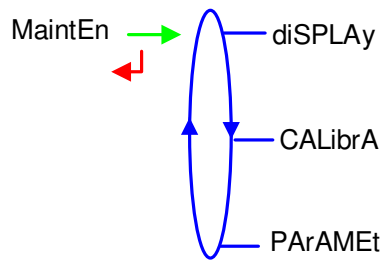
MEtErEd: Metered volume

LoAdEd: Loaded volume

StoCk: Volume available in stock (stock keeping by the meter)



4.3 Menu MAINTENANCE – MAIntEn



4.3.1 Sub-menu DISPLAY – diSPLAy

This menu is used to display the information that follow and to change from summer to winter time (and back again).

dAtE: Current day

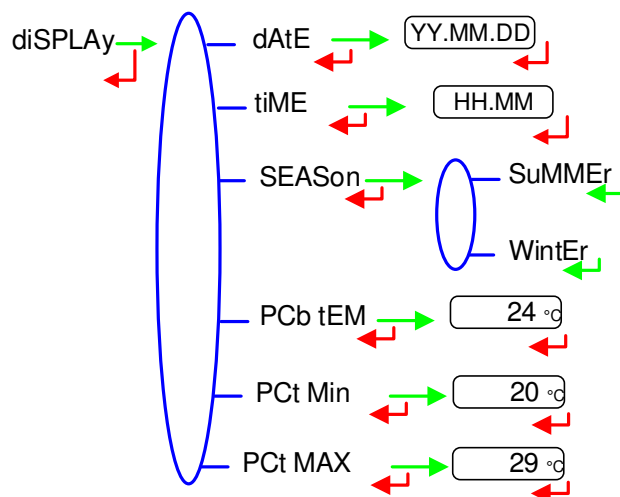
tiME: Current time

SEASon: Season is set in METROLOGICAL mode. This menu is used to change from summer to winter time (and back again)

PCb tEM: Printed circuit board temperature

PCt Min: Recorded minimum temperature of the printed circuit

PCt MAX: Recorded maximum temperature of the printed circuit



4.3.2 Sub-menu CALIBRATION – CALibrA

This menu is used to ease calibration operations. It is available after a measurement sequence after withdrawal of authorization.

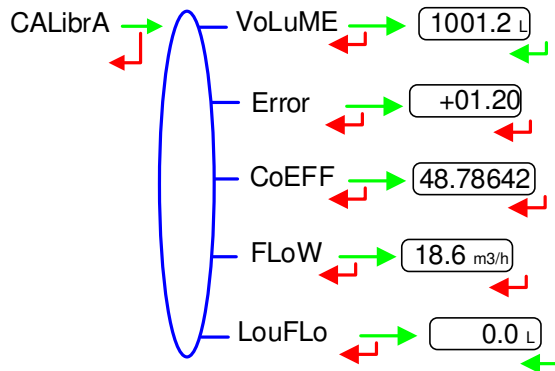
VoLuME: Measured volume, set the volume read on gauge (true volume)

Error: Error in ‰

CoEFF: Coefficient to be set in METROLOGICAL mode, if required. **NOTE:** Only approved persons are permitted to remove the seal.

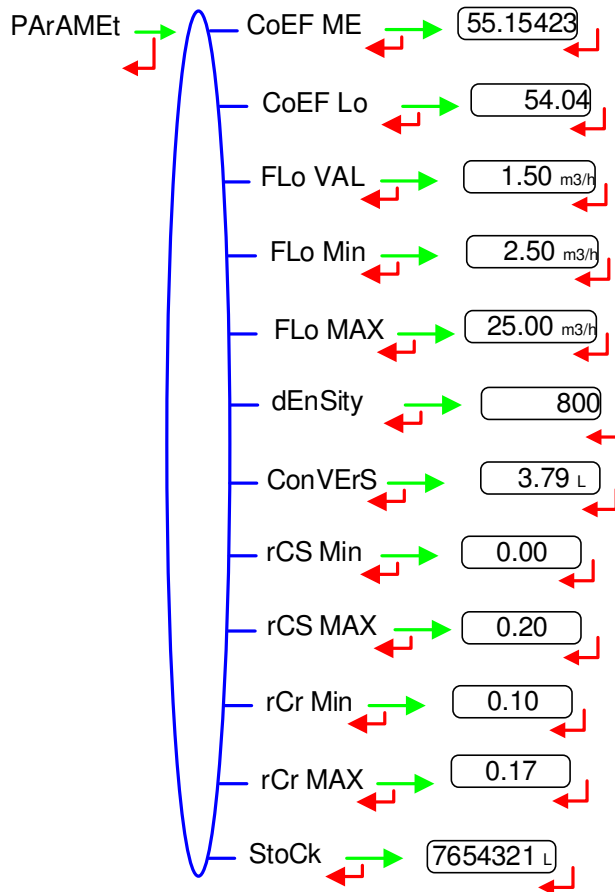
FLoW: Last measurement average flowrate

LouFLo: Volume in flow lower than low flowrate value



4.3.3 Sub-menu PARAMETERS – PArAMeT

This menu is used to display the parameters set in METROLOGICAL mode.



4.4 List of alarms

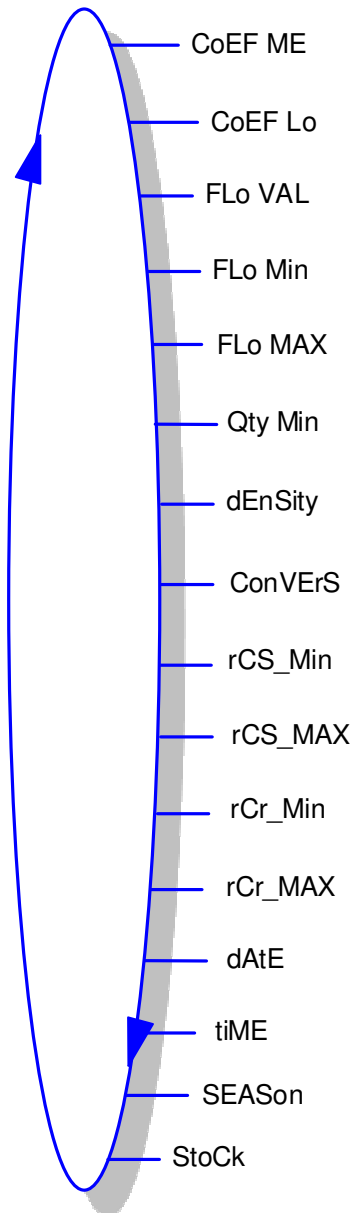
Should a fault occur, the MINICOMPT displays the word "ALARm" and the fault title on the display followed by the displayed value. The operator acknowledges the fault by pressing down Ok (even when pouring). Apart from battery related faults, persistent faults cannot be acknowledged. Once the fault is acknowledged, the selected value is displayed alternately with "-----" to indicate that the measured values are no longer guaranteed.

	DISPLAY	MEANING	ACTION
USER	FuLL	Volume greater than 9 999 999 L	Reset
	LoW_Flo	More than 10 L under 2.5m ³ /h	Check the hydraulic configuration / flow of liquid
REPARATOR	MEtEr	Discrepancy between metering ways	Do a check of the paramaters
	HiGH_FL	Flowrate greater than 25m ³ /h for more than 1s	Do a check of parameters
	dOG	Watchdog fault	If steady alarm, substitution of the MINICOMPT
	ProGrAM	Error on the program checksum	If steady alarm, substitution of the MINICOMPT
	rAM	Ram memory fault	If steady alarm, substitution of the MINICOMPT
	MEtro	Loss of configuration	If steady alarm, substitution of the MINICOMPT
	LobAt1	Battery 1 voltage failure	Replace batteries (see FM 8009)
	LobAt2	Battery 2 voltage failure	Replace batteries (see FM 8009)
	FLASH	Loss of linearization coefficients	Do a check of parameters
	totAL	Loss of parameters	If steady alarm, substitution of the MINICOMPT
MEMory	Loss of backup data concerning the last measurement	If steady alarm, substitution of the MINICOMPT	

5 CONFIGURE THE MINICOMPT: METROLOGICAL MODE

The configuration parameters can only be modified after the processor configuration switch on the electronic card has been switched over. **NOTE:** Only approved persons are permitted to remove the seal and change parameters.

Exit the METROLOGICAL mode thanks to the switch. The device is then reset.



5.1 Set coefficients**CoEF ME:** Set the coefficient for metered volume in pulses by liter.CoEF ME → ↵**CoEF Lo:** Set the coefficient for loaded volume in pulses by liter.CoEF Lo → ↵**5.2 Flowrates adjustment****FLo VAL:** Set the valid flowrate for direction in m³/h.FLo VAL → ↵**FLo Min:** Set the minimum flowrate in m³/h.FLo Min → ↵**FLo MAX:** Set the maximum flowrate in m³/h.FLo MAX → ↵**5.3 Minimum quantity adjustment****Qty Min:** Set the minimum quantity in litersQty Min → ↵**5.4 Density adjustment****dEnSity:** Set the product density in Kg/m³.dEnSity → ↵**5.5 Conversion coefficient adjustment****COnVErS:** Set the coefficient to convert liters-volume (L) in gallons-volume (US gallons).ConVErS → ↵

5.6 Thresholds adjustment

rCS Min: Set the detection threshold of metering inputs at zero flow

rCS_Min → ↵

rCS MAX: Set the detection threshold of metering inputs at maximum flowrate

rCS_MAX → ↵

rCr Min: Set the detection threshold of metering inputs at zero flow

rCr_Min → ↵

rCr MAX: Set the maximum threshold for backlighting.

rCr_MAX → ↵

5.7 Date adjustement

dAtE: Set the date DD.MM.YY.

dAtE → ↵

tiME: Set the time HH.MM.

tiME → ↵

SEASon: Choose season. The menu SuPErVi>SEASon of USER mode can also be used to change from summer to winter time (and back again).

SEASon → WintEr ↵
 SuMMEr ↵

5.8 Stock adjustment

StoCk: Set the volume of product in storage, in liters. The MINICOMPT can perform the stock keeping.

StoCk → ↵

RELATED DOCUMENTS

GU 7105	Operating guide: MINICOMPT
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