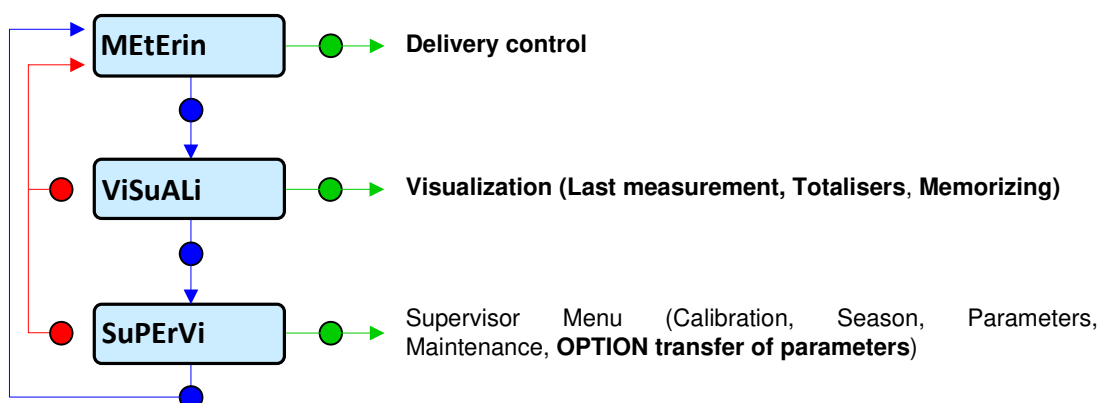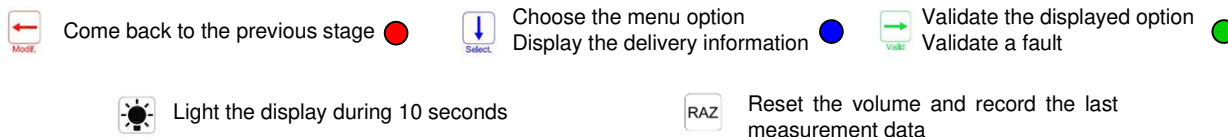|	**OPERATING GUIDE** **CALCULATOR INDICATOR UNI**	GU 7061 EN D www.alma.alma.fr

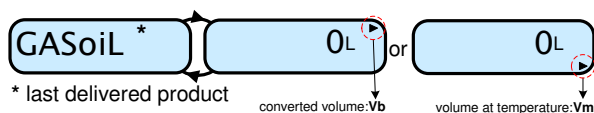This document sketches out the main menus (please refer to operating manual MU 7061 EN for further information).

USING THE BUTTONS

Come back to the previous stage 🔴

Choose the menu option
Display the delivery information 🔵

Validate the displayed option
Validate a fault 🟢

☀ Light the display during 10 seconds

RAZ Reset the volume and record the last measurement data

MEtErin 🟢 → **Delivery control**

🔵

ViSuALi 🟢 → **Visualization (Last measurement, Totalisers, Memorizing)**

🔵

SuPErVi 🟢 → Supervisor Menu (Calibration, Season, Parameters, Maintenance, **OPTION transfer of parameters**)

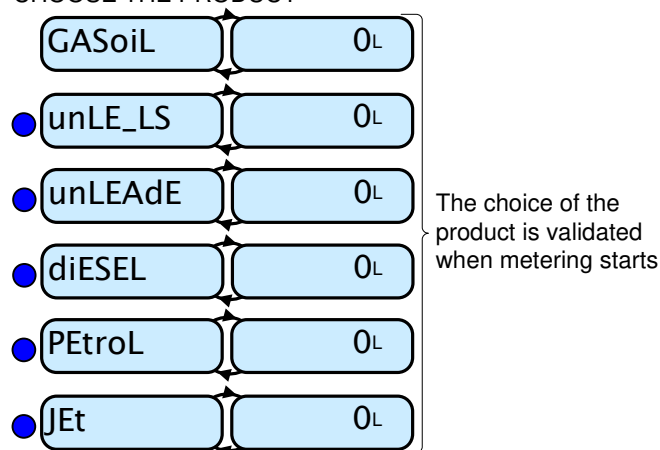⚠ *NB1: Since the CTD+ key is not ATEX, it must be used outside potentially explosive area*
NB2: Do not plug the USB cable during data transfer.

Document available for sotware 434v2.00

RUN A DELIVERY

1. PREPARE THE DELIVERY

| GASoiL * | 0 L | or | 0 L |

* last delivered product

converted volume:**Vb**   volume at temperature:**Vm**

▲ CHOOSE THE PRODUCT

GASoiL	0 L
● unLE_LS	0 L
● unLEAdE	0 L
● diESEL	0 L
● PEtroL	0 L
● JEt	0 L

The choice of the product is validated when metering starts
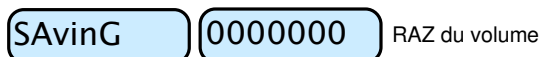
▲ RESET THE METER

If data recording is automatic, appearance of flowrate causes a display test and resets the volume to zero.

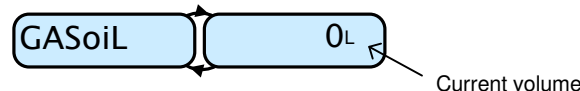| SAvinG | 0000000 | RAZ du volume

2. CARRY OUT THE DELIVERY

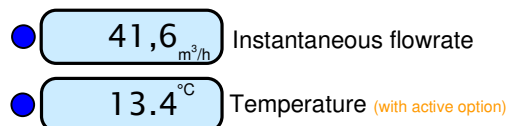### ⚠ CHECK THE CHOSEN PRODUCT

NOTE: The unit of flowrate and volume depends on the settings chosen.

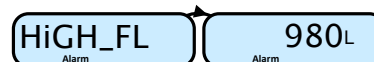### ▲ START THE DELIVERY

| GASoiL | 0 L |

Current volume

▲ DISPLAY THE DELIVERY INFORMATION

● $41,6_{m^3/h}$ Instantaneous flowrate

● $13.4\,^{\circ C}$ Temperature (with active option)

► *APPEARANCE OF A FAULT AND DISPLAY OF AN ALARM*

| HiGH_FL Alarm | 980 L Alarm |

Validate the fault with ●
See list of alarms page 4

The delivery may be interrupted by several situations

► *THE COMPARTMENT IS EMPTY*

| GASoiL | 2001 L |

Wait the blinking display

✊ *Close the valve*
→ *End the delivery (§3)*
→ *Continue delivery (§2)*

► *INTENTIONAL INTERRUPTION OF THE DELIVERY*

✊ *The delivery may be interrupted at any time by closing the valve*

| GASoiL | 5000 L |

✊ *Close the valve*
→ *End the delivery (§3)*
→ *Continue delivery (§2)*

3. FINISH THE DELIVERY

▲ RECORD DATA

If data recording is automatic, the last measurement is recorded after a time-out set in METROLOGICAL mode.

▲ RESET THE METER AND RECORD DATA

If data recording is not automatic, press RAZ to record the last measurement and to reset the volume.
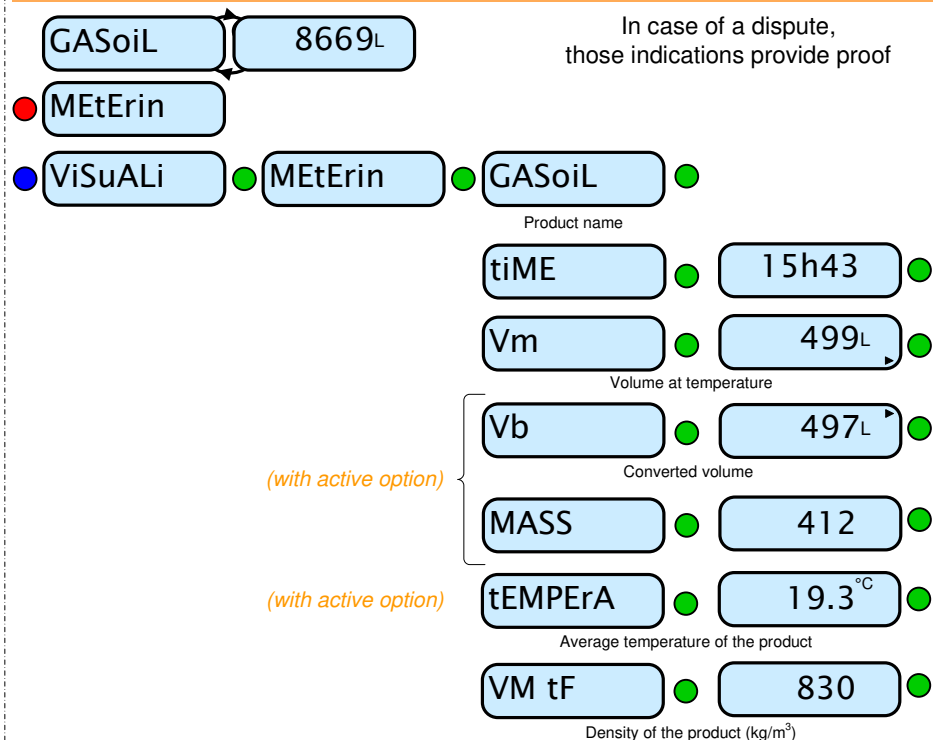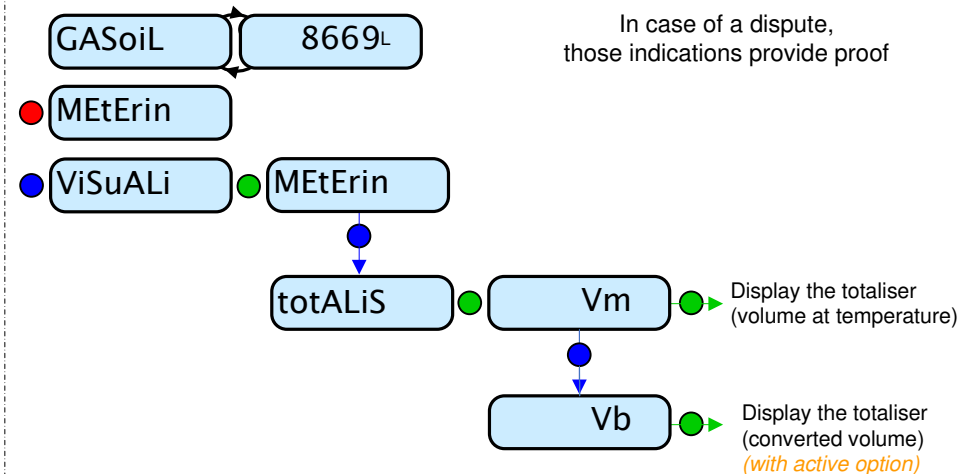
| RAZ | SAvinG | 0000000 |

MEANING OF SYMBOLS

▲ Mandatory action

▲ Optional action (depends on configuration choosen)

► *Event during delivery*

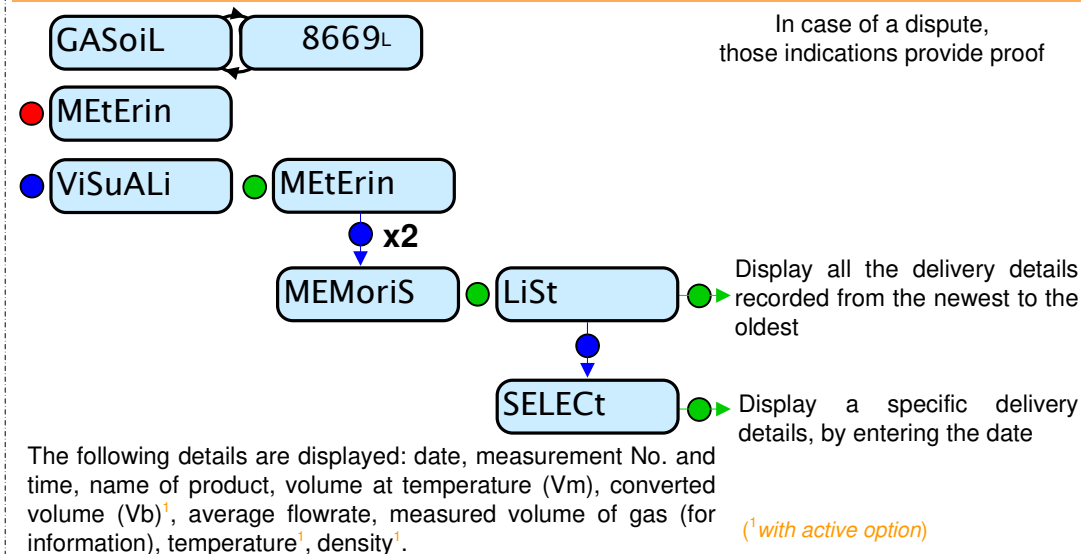✊ Action by operator

DISPLAY/TRANSFER* THE DELIVERY DATA

VISUALIZATION OF THE LAST DELIVERY RESULTS - sub-menu MEtErin

GASoiL | 8669ʟ
● MEtErin

In case of a dispute,
those indications provide proof

● ViSuALi ● MEtErin ● GASoiL ●
Product name

tiME ● 15h43 ●

Vm ● 499ʟ ●
Volume at temperature

(with active option)
Vb ● 497ʟ ●
Converted volume

MASS ● 412 ●

(with active option)
tEMPErA ● 19.3 °C ●
Average temperature of the product

VM tF ● 830 ●
Density of the product (kg/m³)

VISUALIZATION OF ALL THE DELIVERY RESULTS - sub-menu MEMoriS

GASoiL | 8669ʟ
● MEtErin

In case of a dispute,
those indications provide proof

● ViSuALi ● MEtErin
● x2

MEMoriS ● LiSt ● ▶
Display all the delivery details recorded from the newest to the oldest

SELECt ● ▶
Display a specific delivery details, by entering the date

The following details are displayed: date, measurement No. and time, name of product, volume at temperature (Vm), converted volume (Vb)[1], average flowrate, measured volume of gas (for information), temperature[1], density[1].
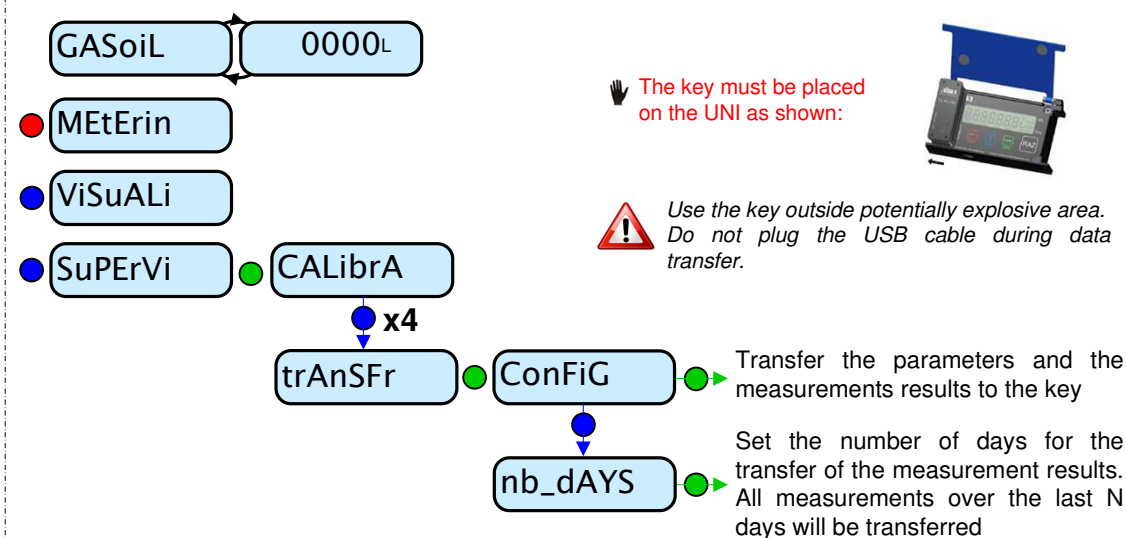
([1] with active option)

*OPTION KEY CTD+: TRANSFER MEASUREMENT DATA

✋ The key must be placed on the UNI as shown below and outside potentially explosive area

GASoiL | 0000ʟ   RAZ + ●
Transfer the parameters and the measurement results to the key
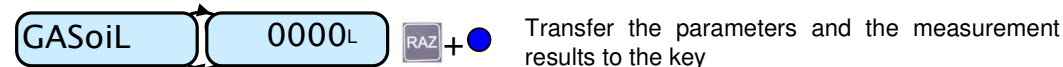
*OPTION KEY CTD+: TRANSFER MEASUREMENT DATA - sub-menu trAnSFr

GASoiL | 0000ʟ
● MEtErin
● ViSuALi

● SuPErVi ● CALibrA ●
● x4

✋ The key must be placed on the UNI as shown:

⚠ *Use the key outside potentially explosive area. Do not plug the USB cable during data transfer.*

trAnSFr ● ConFiG ● ▶
Transfer the parameters and the measurements results to the key

nb_dAYS ● ▶
Set the number of days for the transfer of the measurement results. All measurements over the last N days will be transferred

VISUALIZATION OF THE TOTALISERS - sub-menu totALiS

GASoiL | 8669ʟ
● MEtErin

In case of a dispute,
those indications provide proof

● ViSuALi ● MEtErin

totALiS ● Vm ● ▶
Display the totaliser (volume at temperature)

Vb ● ▶
Display the totaliser (converted volume)
(with active option)

LIST OF ALARMS

	DISPLAY	MEANING	ACTION
USER	oVErFLo	Volume greater than 4 194 304 liters	Reset the device
	LoW_FLo	Flow rate less than the setting minimal flow rate	Check the hydraulic configuration and the flowing
	SEnSor1	High gas detector fault (GDh)	Use the maintenance menu to check the status of the detector
	SEnSor2	Low gas detector fault (GDl)	Use the maintenance menu to check the status of the detector
REPARATOR	FLoV_	Flow setting fault	Check the parameters
	FrEQ_	Frequency fault	Check the parameters
	COEFF_	Difference between two coefficients is greater than 0,5%	Check the coefficients setup
	MEtEr	Problem of metering with the meter	Check the setup
	HiGH_FL	Flow rate greater than the setting maximal flowrate	Check the setup
	LF_HiGH	Flow greater than $20 m^3/h$ while GDh dry	Check the setup
	dAtE	Loss of date and time	Set date and time in metrological mode
	GAS	GDh is wet but GDl is dry	Check the hydraulic configuration / Check the detector status
	drY MEt	When using a pump. The volume of gas is greater than the minimum measured quantity	Stop metering
	CoiL	Loss of pulse transmitter signal	Check the connection with the pulse transmitter
	tEMPErA	Temperature less than -20°C or greater than 50°C	Check the temperature sensor (measure and calibration)
	diSPLAY	LCD display fault	If steady alarm, substitution of the UNI
	doG	Fault with card	If steady alarm, substitution of the UNI
	ProGrAM	Error on the checksum of the metrological data	If steady alarm, substitution of the UNI
	rAM	Saved memory fault	If steady alarm, substitution of the UNI
	MEMoriS	Bad writting into the memory	If steady alarm, substitution of the UNI
	FuLL	If a measurement result, not older than 3 months, is about to be erased	If steady alarm, substitution of the UNI
	MEtro_	Configuration loss	If steady alarm, substitution of the UNI
	bAttErY	Low battery	Substitution of the batteries
	totAL_	Totaliser fault	If steady alarm, substitution of the UNI
	dEF_MEM	Loss of backup data concerning the last measurement	If steady alarm, substitution of the UNI
	dEF_CoM	Communication fault with IRDA link	Check the IRDA link
	rECEPt	Problem of communication protocol between the calculator-indicator UNI and the CTD+ key	Check the compatibility