



MAINTENANCE SHEET

Adjustment of an ALMA measuring system equipped with a UNI indicator device

FM 8505 EN D
www.alma-alma.fr

The verification seals have to be broken by authorised personnel only

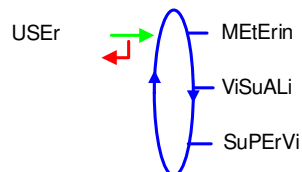
1 SETTINGS PARAMETERS



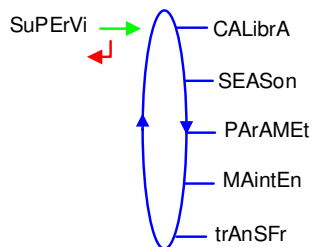
Before any operation, please note the setting parameters. Use the manual or the automatic procedure described below.

1.1 Manual procedure

- The indicator displays the product alternately with the volume, press , choose the menu **SuPERVi** thanks to  and validate with .



- Then choose the menu **PArAMeT**



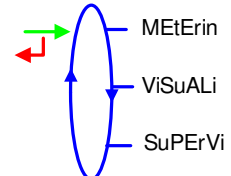
- Write down all the parameters
- Use  to return to main menu **USER**

1.2 Automatic procedure with a CTD+ key

Refer to maintenance sheet GU 7110

2 MEASUREMENT OF VOLUME AND CALCULATION OF COEFFICIENTS

The measurement of volume must be done in accordance with the specific instruction depending on what kind of measuring system is being verified.

- Thanks to  choose the menu **MEtErin** and validate with .
- 

The indicator displays the product to be loaded alternately with the volume in liters (usually 0L). The volume will increment automatically as soon as the liquid will begin to flow.

- Write down the volume in the gauge and the temperature value, according to the relevant instruction
- Calculate the temperature-compensated volume
- When the loading is complete, press  and return to **SuPERVi** thanks to .
- Choose the menu **CALibrA** and validate with .



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The UNI displays:

VoLuME



➤ Validate with

The volume measured by the UNI is displayed (in tenth of litres):

1000.1 L

➤ If necessary, enter the temperature-compensated volume and validate with



➤ The UNI displays the error in %. Validate with



Err-00.02

➤ The new coefficient is displayed. Write it down and press



➤ Thanks to  choose **AV_FLoV** and validate with . Then the UNI displays the average flowrate of the test. Write it down and return to **SuPERVi** thanks to 

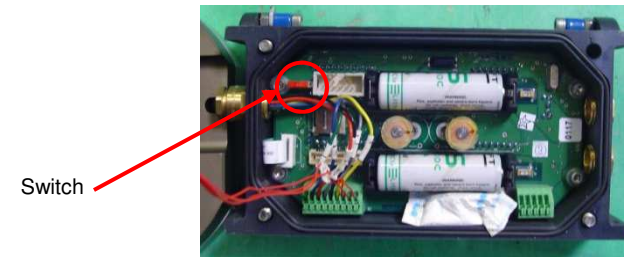
The UNI displays:

SuPERVi

➤ Return to §2 and do the low flowrate test with $Q_{min} \ll Q \ll 1.5 \times Q_{min}$.

3 INTEGRATION OF RESULTS

➤ Open the indicator (4 screws), then enter the METROLOGICAL mode with the switch shown below:



➤ Thanks to  choose **CoEFFiC** and validate with 

➤ **CoEFF_1** is displayed, validate with 

➤ Set the coefficient previously calculated for the high flowrate test and validate with 

Using buttons:



Increment the flashing figure



Select the figure to be modified



Validate the displayed value

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- Thanks to  choose **FLow_1** and validate with .
- Set the flowrate value (in m³/h), and validate with .
- Thanks to  choose **CoEFF_2** and validate with .
- Set the coefficient previously calculated for the low flowrate test and validate with .
- Thanks to  choose **FLow_2** and validate with .
- Set the flowrate value (in m³/h) and validate with .
- Continue with .
- If necessary, set the correction coefficient **kV 1** and validate with .
- If it's not used, press .
- The display returns to **CoEFF_1**. Press  twice to return to the main METROLOGICAL menu

METroLo
Métro

- Exit the METROLOGICAL mode with the switch

The UNI reboots

- Return to §1 to check that the new coefficient has been properly memorised

4 CLOSURE RECOMMENDATIONS

- The ring must be replaced properly. Lubricate it if necessary
- Put a new 2g dehydrating packet – silica gel in the box



WARNING: RISK OF IRREVERSIBLE DAMAGES TO THE SCREEN

Close the UNI without damaging the wires.

- Make sure the wires don't get caught between coils or batteries and the body of the turbine
- Make sure the wires don't get caught between batteries and their holding foam.