i 35 indicator

PRECIA MOLEN™
WORLDWIDE WEIGHING

User Manual

04-52-05-1 MU - 12/2012

This guide is intended for i 35 indicator users.
It allows starting the equipment quickly. For electrical connection and installation, refer to the following manuals:

- Wiring diagram: 04-50-00 DD
- Installation manual: 04-52-05 MI

Before first use, check the application parameters in configuration mode

Safety

For devices connected through a power outlet, the NF EN 60 950 standard requires to have this outlet installed close to the equipment and easily accessible. For equipment connected permanently to mains, an easily accessible cut-off device must be included to the permanent installation.

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Important warning concerning people safety

Remark concerning the preservation and proper equipment maintenance.

Note aiming to:
- **facilitate reading the manual.**
- **optimally implement the equipment.**

Terminology and abbreviations

The menu options or parameters are noted:

- **OPERATOR** / **OPTION 1** / **OPTION 2**... / **PARAMETER**

or

- **INSTALLER** / **OPTION 1** / **OPTION 2**... / **PARAMETER**

In this manual, the functions are all executed in OPERATOR mode, the notations are abbreviated as follows:

- OPTION 1 / OPTION 2... / PARAMETER

Recommendations

For optimum accuracy and equipment preservation:

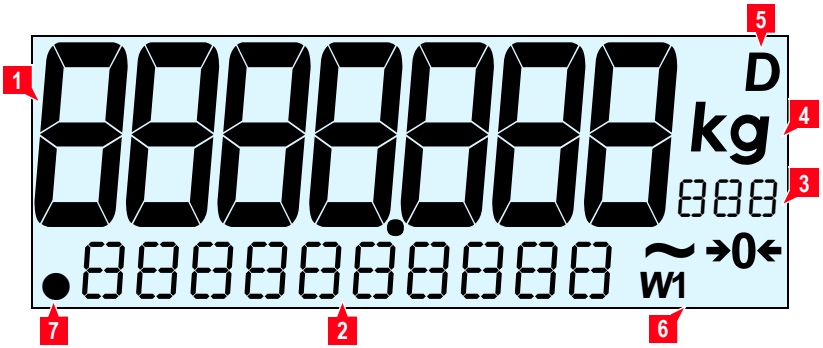
- Do not submit the indicator and scale to shocks or overloads
- Do not store any load on the instrument unload it as soon as weighing is complete.
- Never use solvents or abrasives for cleaning.

Overview

Keyboard

	Function	
	On / Off	Press and hold to power up the indicator.
M	Application / Metrology	Toggles between the two operating modes.
MENU +	Configuration mode	Keep these keys pressed to power up the power indicator in configuration mode.
ESC	Escape	Escape a menu or the input without having it taken into account.
MENU	Menu	Allows entering configuration mode by pressing and holding power.
	Validation	Input in a menu or take into account the current input.
8 4 6 2	Arrow keys	Navigating the menu or list options Indication < > in the help area.
0 ... 9 C	Numeric keypad and correction	
T	Taring or reset to zero	
B/G	Gross weight recall	
	Printing	If printer connected

Screen



	Title / Symbol	Function Usage
1.	**Weight field**	Display digital data: Weight, number of pieces, calculated data.
2.	**User field**	Indications intended for the user.
3.	**Information field.**	- NET indication if tare taken into account. - Additional unit. - Indication of valid keys. See details below.
4.	**kg g t lb**	Unit.
5.	**D**	- Application mode: Symbol **D** displayed. The displayed weight is not a metrological reference. - Metrological mode No symbol. The displayed weight is a metrological reference.
6.	**W1W2**	Measuring range: Range 1 or 2 is active.
	~	The weight is unstable.
	→0←	The weight is in the zero area and stable.
7.	●	Confirmation of the touch of a button.

Help zone - Detail of an indication of valid keys

0 - 9	Numerical input.
0 - Z	Alphanumeric input.
1 - 6	Numeric entry between two specified values ??(e.g.: Between 1 and 6).
( )	Indication of a menu (even if there is only one option).
ESC	Output of a screen showing data display only.

Basic parameters

Language

- PARAMETERS / LANGUAGE

Choose English or French.

Display

- PARAMETERS / DISPLAY / ECO MODE allows setting auto-extinction:

ON	Turning off the backlight after 30s of inactivity, weight to zero.
OFF	No backlight auto-extinction.

- PARAMETERS / DISPLAY / BRIGHTNESS adjusts the backlight intensity: 3 levels or extinction.
- PARAMETERS / DISPLAY / COLOR sets the background colour of the screen: 7possible colours.

The choice of a colour other than white no longer allow displaying the application mode texts in colour.

Date and time

- PARAMETERS / DATE / TIME

Changing this parameter does not require saving. It is automatically done after changing the time.

Standard operator functions

Introduction

The standard operator functions are available when the indicator is powered on.

The key MENU particularly allows access to the functions:

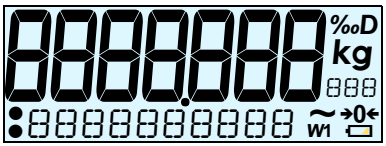
- READ USD,
- PT (Predetermined tare).

The B/G key allows displaying the Gross weight.

These functions are also described in the following chapter (See “Special operator functions”, page 9)

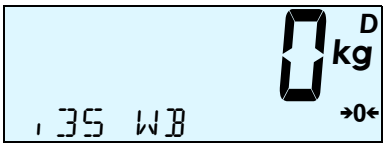
Power up

1. The instrument performs a self-test.
   Check the proper display operation (no defective segment).



2. The software version is displayed.

3. The self-test is complete, the instrument initialises the measurement and it is ready for use.



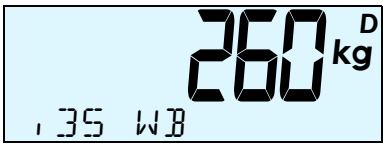
Initial zero setting

This reset to zero can be made at the indicator power up. To do this, when powering on, the user presses the key →T← until the equipment starts. This zero is the reference to other reset devices.

Taring

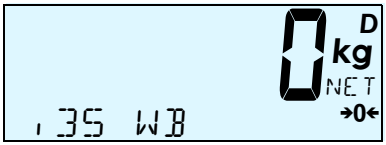
The taring function allows storing the load weight in place on the receiver (container) as tare value and then obtain the product net weight).
(displayed weight = current weight - tare. Thus the NET weight viewed is positive when loading and negative when unloading).

1. Place the container on the load receiver.



2. Select the taring function (→T←).

The displayed weight corresponds to the net weight.



Special operator functions

Introduction

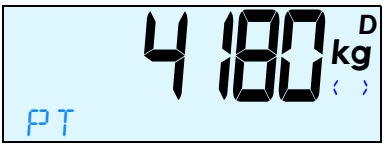
The special operator functions are available from the metrological screen.

Once in the metrological screen (M key), press MENU key to access the operator configuration. Then use the keys 4 et 6 to access various available functions.

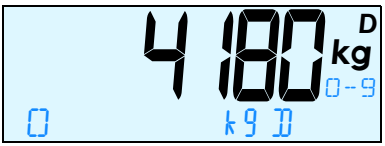
Manually entering a tare value (predetermined tare)

This function allows to manually entering a tare value for the net weight display from 0 to MAX (0 allows cancelling the predetermined tare).

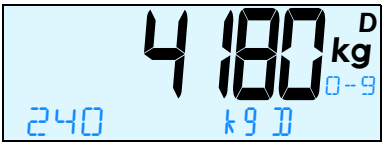
1. Select the preset tare function (PT) and then validate (↵).



2. The actual tare value is displayed.

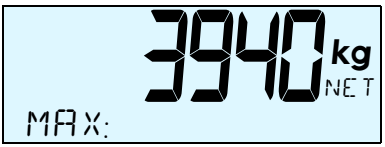


3. Enter the new tare value by pressing the numeric keyboard keys:



4. Validate this new value (↵).

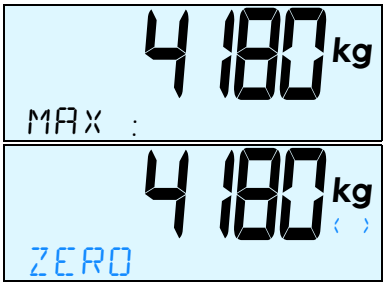
The value is taken as tare value. The weighing result is now displayed as Net.



Reset to zero

When the load receiver is empty and the displayed weight is not zero, the reset to zero function allows ensuring the reset to zero on the instrument (This function is limited to ± 2% of the maximum instrument range from the initial zero in trade use or to a configuration value outside legal metrology).

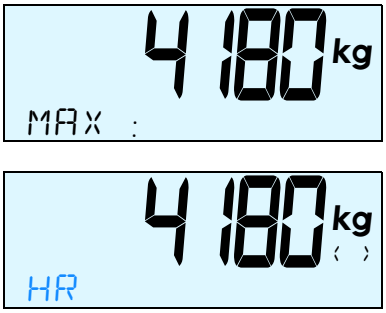
1. Select the function ZERO and then validate (↵).



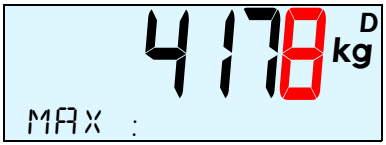
2. The displayed weight is set to zero.

High resolution display

1. Select the function HR and then validate (↵).

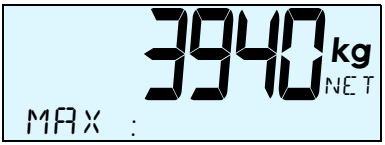


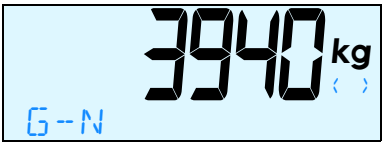
2. The result is displayed with the precision associated with high resolution for a few seconds in Legal Metrology and remains permanent if Not Legal Metrology.



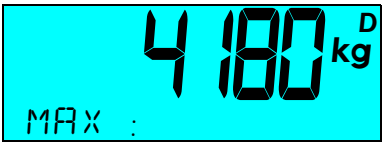
Gross weight recall

1. Select the function G-N and then validate (↵).



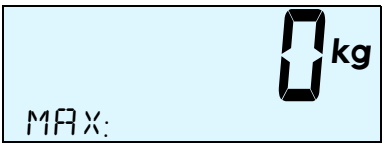


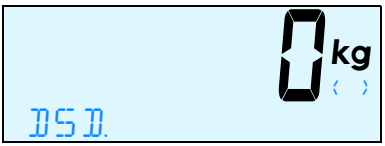
2. The screen changes colour (cyan) and the result is displayed as gross weight for a few seconds in Legal Metrology and remains permanent if not Legal Metrology.



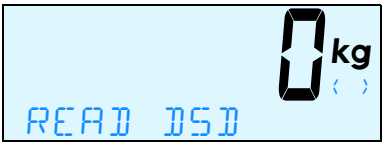
Reading DSD

1. Select the function DSD and then validate (↵).

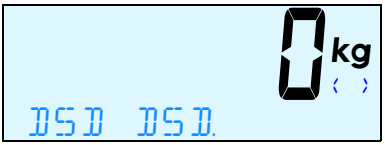




2. Select the function READ DSD and then validate (↵),



or select the function REF. DSD and then validate(↵).
This reference allows identifying a bridge.



3. Select the function DSD NUM and then validate (↵).

4. Enter the record number to be read using the keys 4 and 6 and then validate.

Note: Enter 0 to display the last recording.

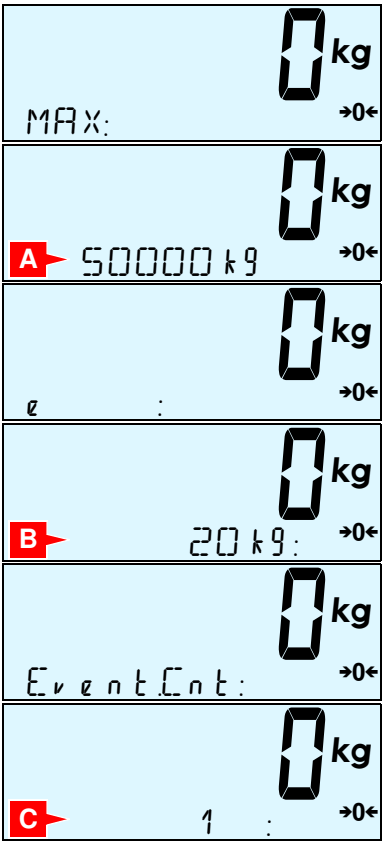
5. Validate once again to view the information corresponding to the record.

6. The information viewed from DSD are:

- Gross weight value,
- Tare value,
- Net weight value,
- Date
- Time,
- The Record number involved.

Information

1. Press key 6 to view the metrological data.
   The corresponding information is:
   - MAX: Equipment maximum range (A).
   - e: Division (B).
   - Event.Cnt(C).



Weighing

Information

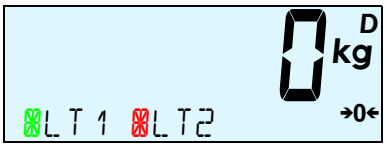
Light management as well as DSD are optional.

Simple weighing

Procedure

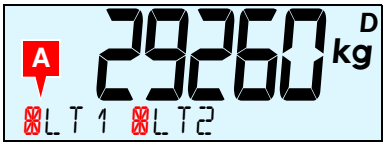
1. Power up the device ( ).

The screen shown on the left appears. In case that other information appear, use the arrow keys 4 and 6.



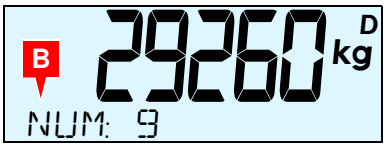
2. The truck gets on the bridge. The weight value is displayed on the screen.

Once the minimum threshold is reached, the input light (A) turns red, which means that a weighing is in progress.



3. Validate the weighing with key .

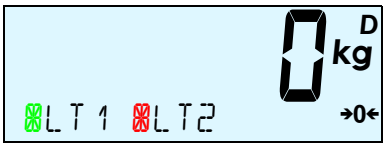
The transit number appears for a short period (B).



4. The output light (C) turns green, which means that the weighing is done and that the truck can leave.

5. Once the truck has left, the weight returns to zero and the input light turns green.

6. A new weighing can be made.



Ticket description

1. Ticket header.

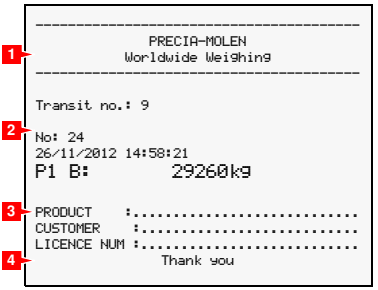
2. Information on the weighing:

- Transit no.
- DSD no.,
- Date and time,
- Gross result.

3. Other information

- Product name,
- Customer name,
- Free text.

4. End of free text line.

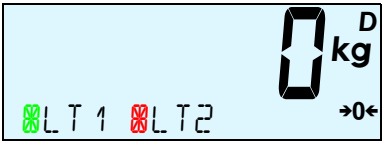


Weighing with second weighing

Procedure

1. Power up the device ( ).

The screen shown on the left appears. In case that other information appear, use the arrow keys 4 and 6.



2. The truck (e.g.: Empty) gets on the bridge. The weight value is displayed on the screen.

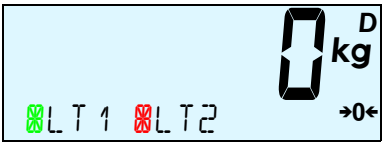
Once the minimum threshold is reached, the input light turns red, which means that a weighing is in progress.

3. Validate the weighing with key .

The weighing number appears for a short period.

4. The output light turns green, which means that the weighing is made and that the truck can leave.

5. Once the truck has left, the weight returns to zero and the input light turns green.



6. The truck (e.g.: Loaded) gets on the bridge again. The weight value is displayed on the screen.

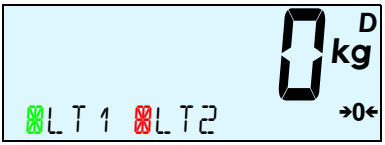
7. Enter the number of the previous weighing using the numeric keyboard and validate by pressing the key ↵.

8. The result of the first weighing is displayed.

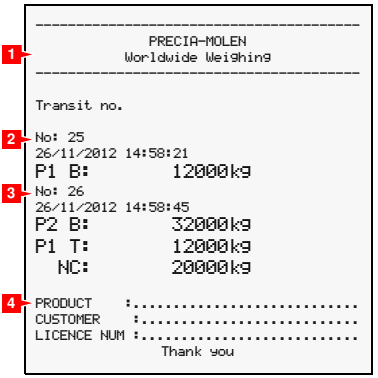
9. Validate the weighing (🖶).

10. Once the truck has left, the weight returns to zero and the input light turns green.

11. A new weighing can be made.



Ticket description



1. Ticket header.

2. Information on the first weighing:

- DSD no.,
- Date and time,
- Gross result.

3. Information on the second weighing:

- DSD no.,
- Date and time,
- Gross result,
- Result of the first weighing (equivalent to a TARE),
- Positive difference between two weighings (net and calculated).

4. Other information:

- Product name,
- Customer name,
- Free text.

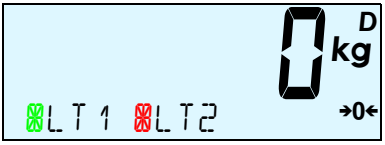
5. End of free text line.

Weighing with Predetermined Tare

Procedure

1. Power up the device ( ).

   The screen shown on the left appears. In case that other information appear, use the arrow keys 4 and 6.



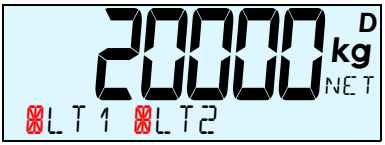
2. Enter the menu (MENU)
3. Select the PT function with the arrow keys, then validate ( ).

4. Enter the tare value with the numeric keyboard keys, then validate.

5. The net weight is displayed on the screen.

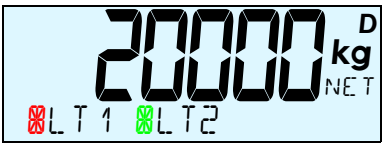
6. The truck gets on the bridge. The net weight value is displayed on the screen.

   Once the minimum threshold is reached, the input light turns red, which means that a weighing is in progress.



7. Validate the weighing with key .

   The output light (C) turns green, which means that the weighing is made and that the truck can leave.



8. Once the truck has left, the weight returns to its initial value and the input light turns green.

9. A new weighing can be made.

Ticket description

1. Ticket header.

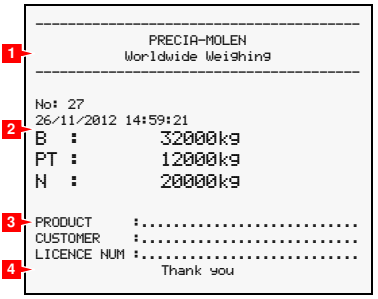
2. Information on the weighing:

- DSD no.,
- Date and time,
- Gross result,
- Tare,
- Net result.

3. Other information

- Product name,
- Customer name,
- Free text.

4. End of free text line.

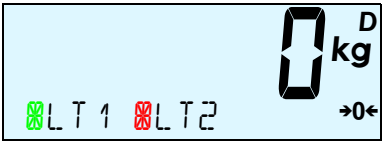


Weighing with Manual tare

Procedure

1. Power up the device ( ).

The screen shown on the left appears. In case that other information appear, use the arrow keys 4 and 6.

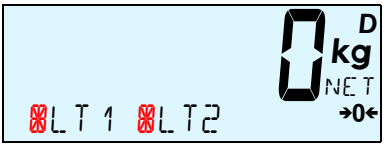


2. The truck (e.g.: Empty) gets on the bridge. The weight value is displayed on the screen.

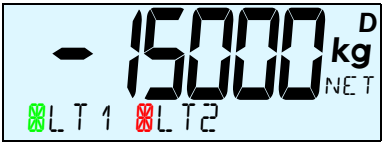
Once the minimum threshold is reached, the input light turns red, which means that a weighing is in progress.

3. Validate tare with key →T←.

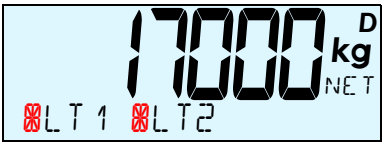
The net weight is displayed on the screen.



4. The truck gets off the bridge

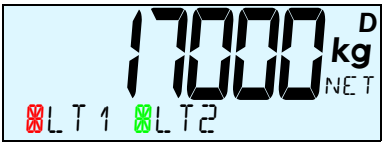


5. The truck (loaded) gets on the bridge again.



6. Validate the weighing.

The output light (C) turns green, which means that the weighing is made and that the truck can leave.

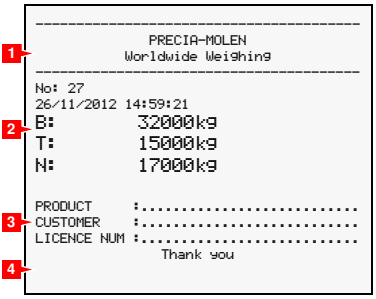


7. Once the truck has left, the weight returns to its initial value and the input light turns green.

8. A new weighing can be made.

Ticket description

1. Ticket header.
2. Information on the weighing:
   - DSD no.,
   - Date and time,
   - Gross result,
   - Tare,
   - Net result.
3. Other information
   - Product name,
   - Customer name,
   - Free text.
4. End of free text line.



Operator configuration

Introduction

Press keys MENU + ⏻ at indicator power up or restart to access the operator configuration.

Parameter configuration

There parameters are accessible from the configuration menu.

1. Access to the configuration menu.

   LOGIN / **OPERATOR** / **APP**

   For PARAMETERS et MEASURE menus, refer to the installation guide: (04-52-05-1 MI).

2. Enter the parameter BRIDGENAME.

   This parameter allows assigning a name to the bridge in 10 characters.

3. Enter the LOCK MSG parameter.

   This parameter allows selecting the message to be displayed when the presence threshold is reached and that the LOCK input is active.

4. Enter the LOCK WT parameter.

   This parameter is active when the LOCK input is active:

   - YES⇒ the weight is displayed in red on the screen.
   - NO⇒ the weight is not displayed.

5. Enter the PRES THRES parameter.

   This parameter allows entering the threshold from which it is considered that the bridge is no longer free.

6. Enter the TICKET LIB parameter.

   This parameter allows selecting the message at next to the last line of the ticket (10 characters max).

7. Enter the parameter LIGHT 1NAME.

   This parameter allows assigning a name to the light number 1.

8. Enter the parameter LIGHT2NAME.

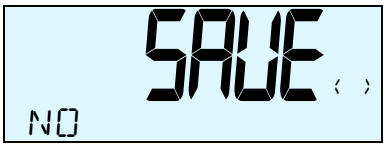
   This parameter allows assigning a name to the light number 2.

Saving

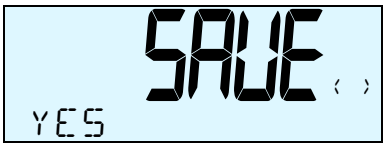
When configuration parameters have been changed, the saving can be done in two ways:

- by going back to the highest level in the configuration menu,
- by pressing the key .

The SAVE option screen is displayed for about 1s and then the choice for validating the modified parameters or not is offered.



Select NO to return to the configuration menu without saving the changed parameters.

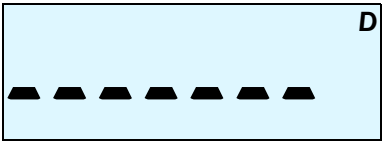


Select YES to return to the configuration menu after saving the changed parameters.

Error messages

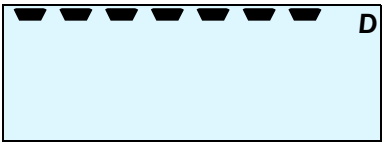
1. Instrument under-load.

- Check the load receptor.
- Reset to zero.



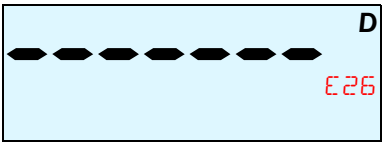
2. Instrument overload.

- Remove part of the load.



3. Command denied

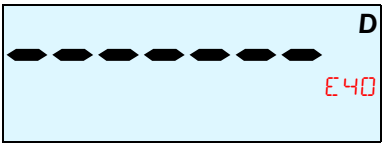
- Example: Taring with an unstable weight



4. Reset to zero rejected

(The weight limit authorized for this function is exceeded.)

- Remove the load and press the reset to zero key.



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WWW.PRECIAMOLEN.COM

www.preciamolen.com

Head Office & Plant PRECIA-MOLEN
BP 106 - 07000 Privas - France
Tel. 33 (0) 475 664 600
Fax 33 (0) 475 664 330
E-MAIL webmaster@preciamolen.com

RCS: 386 620 165 RCS Aubenas

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