

INSTRUCTIONS FOR ENCODER RESOLUTION CALIBRATION

Newport™ guarantees specification values which are measured and recorded following ASME B5.57 and ISO 230-2 standards. The typical performance values exceed the guaranteed specifications.

The following stages series are supplied with a **Control report** indicating the measured value for the index increment which must be updated in the stage default configuration file to ensure optimum performance.

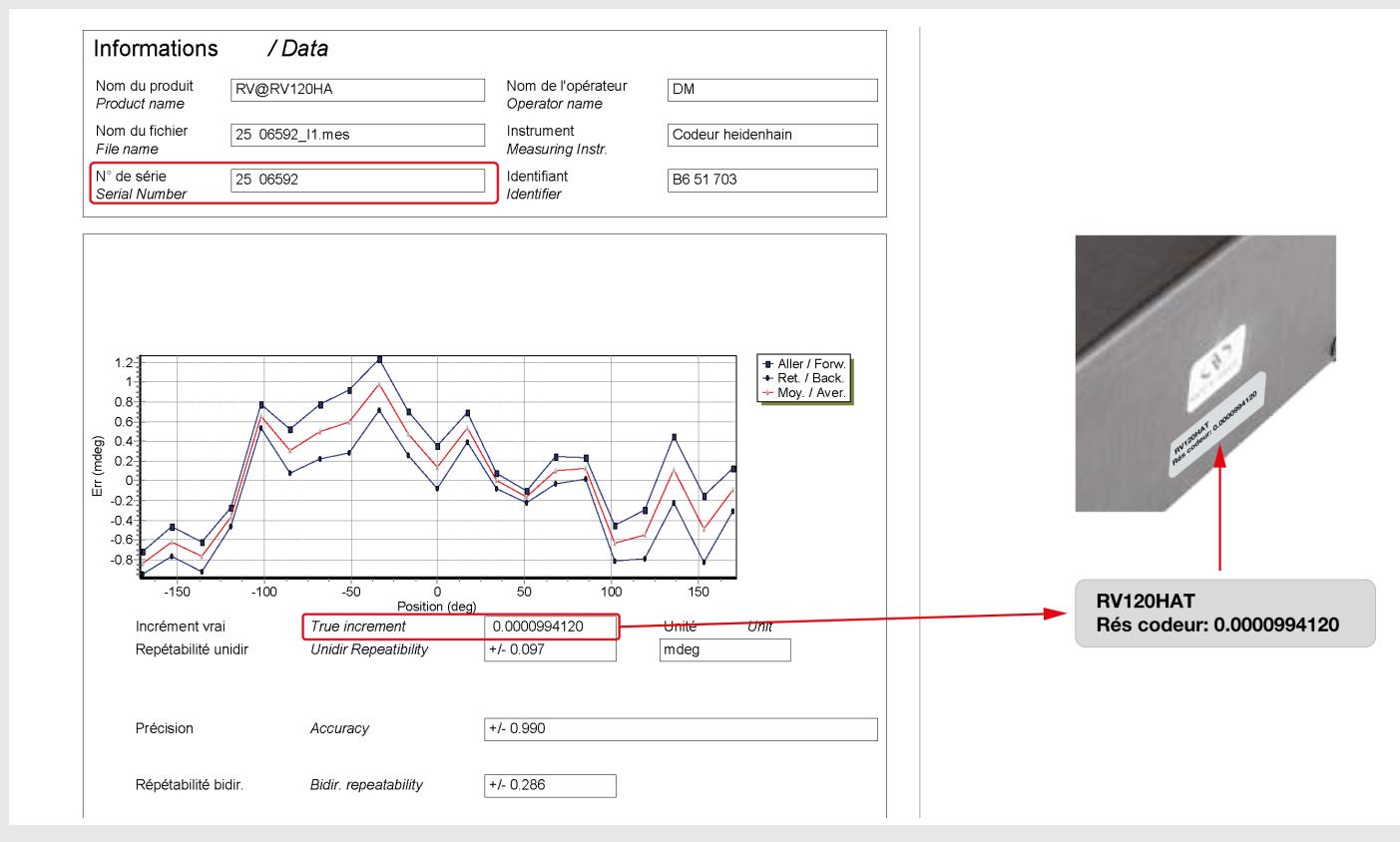
1. STAGES SERIES CONCERNED

- ILSxxHA
- TRA
- IMSxxHA
- TRB
- RVxxHAXx
- LTA HL / HS

2. HOW TO RETRIEVE THE ENCODER RESOLUTION TRUE VALUE

The true value of the Encoder increment is indicated:

- in the Control report delivered with the stage
- on a label affixed to the stage

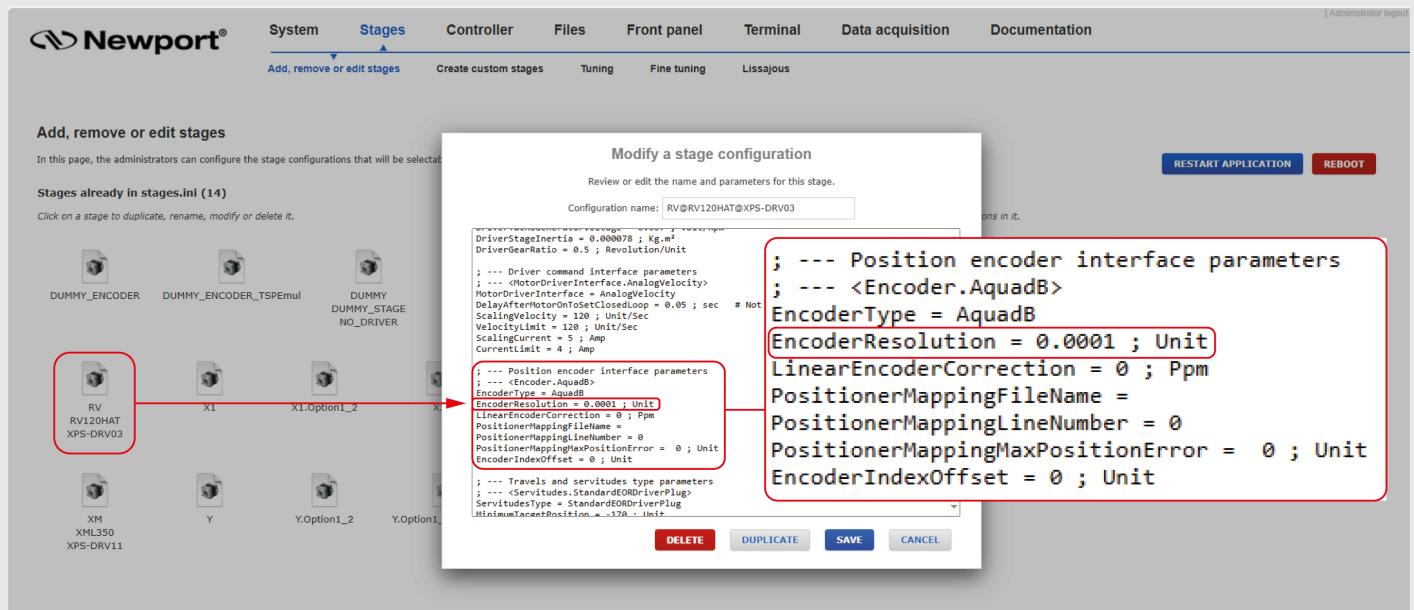


3. HOW TO CONFIGURE THE ENCODER RESOLUTION TRUE VALUE IN XPS-D / RLD CONTROLLERS

Once the stage has been added to the stages.ini file, modify the EncoderResolution parameter:

- Click on the stage from the list under “**Stages already in stages.ini**”. A window is displayed which allows the user to modify the stage in the stages.ini file.
- Scroll down to the section “**Position encoder interface parameters**” that contains the **EncoderResolution** parameter that will be modified.

- Modify the **EncoderResolution** parameter according to the Control report of the stage. In the example described the value of the EncoderResolution parameter must be changed from the default value (0.0001) to the control report **True increment** value (0.0000994120)
- When done, click “**Save**” to apply the new value, or click “**Cancel**” if a mistake was made.
- To take the new value into account, reboot the controller by clicking the “**REBOOT**” button.

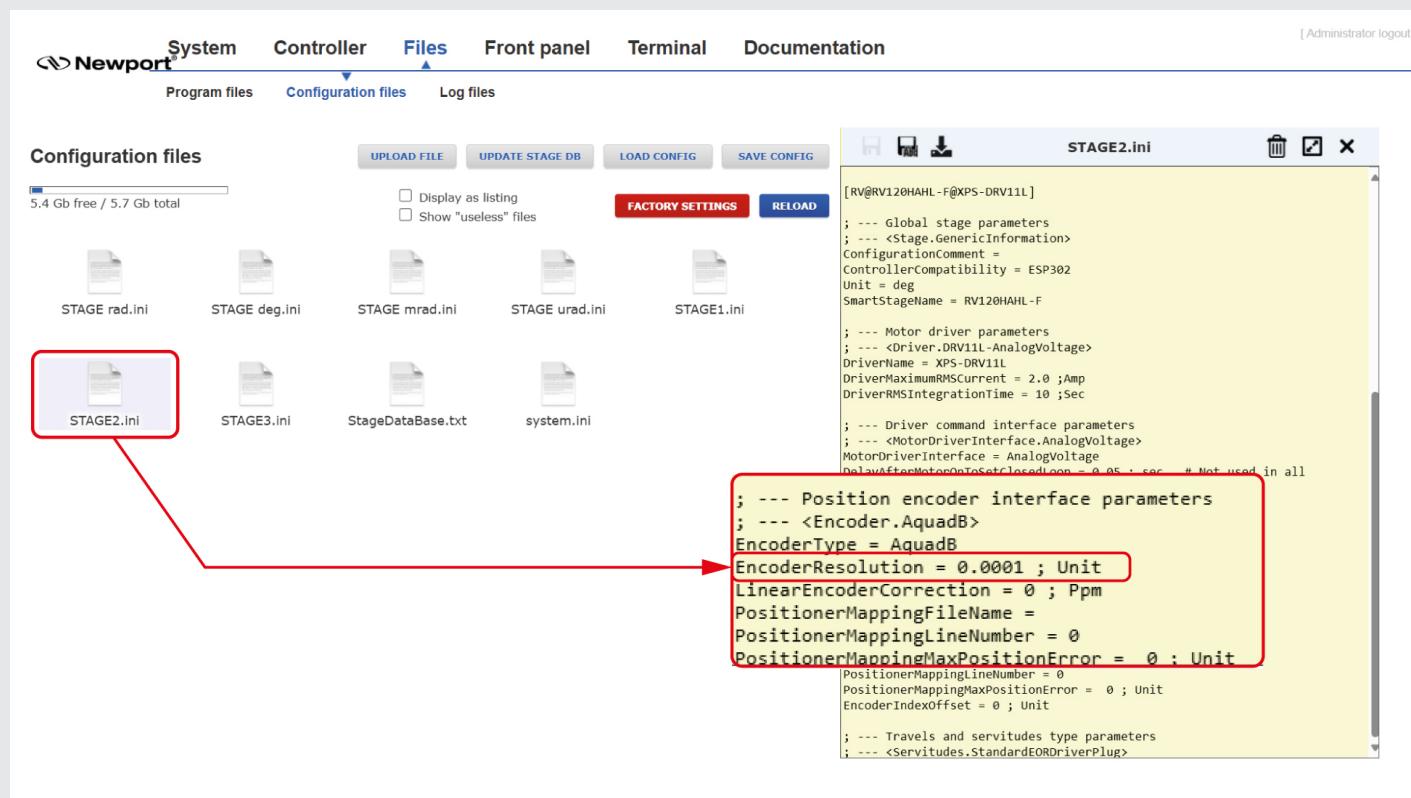


4. HOW TO CONFIGURE THE ENCODER RESOLUTION TRUE VALUE IN ESP302 CONTROLLER

Once the stage has been added to the configuration files, modify the EncoderResolution parameter:

- Click on the stage.ini file from the **File / Configuration files** window. The edit window displays the stage.ini file and allows the user to modify the stage parameters.
- Scroll down to the section “**Position encoder interface parameters**” that contains the **EncoderResolution** parameter of the stage that will be modified.

- Modify the **EncoderResolution** parameter according to the Control report of the stage. In the example described the value of the EncoderResolution parameter must be changed from the default value (0.0001) to the control report **True increment** value (0.0000994120).
- When done, click Save icon  to apply the new value.
- To take the new value into account, reboot the controller by clicking the “**RELOAD**” button and then select “**REBOOT**”.



5. ENCODER RESOLUTION CALIBRATION FOR NON NEWPORT CONTROLLER

Refer to controller's Manual for stage configuration procedure to modify the equivalent EncoderResolution parameter.

