


RL Quick Installation Guide

<p>① Turn on the RL. The unit is turned on and is initializing for about 10 seconds, during which the display remains blank.</p>	
<p>② The version screen appears: Model Type RL FW Ver: Firmware version HW Ver: Hardware version</p>	<p>Init. Please wait... RL2000 FW Ver: 04.00.160 HW Ver: 020</p>
<p>③ Main Menu appears automatically otherwise press E to enter the Main Menu. Scroll to Basic Settings using the ← key and press E.</p>	<p>Main Menu →Basic Settings Output Settings Display setting</p>
<p>④ Set the Distance Units. Use the + and ← keys to select the type. Press E to select and move to next parameter.</p>	<p>Distance Unit →m cm mm</p>
<p>⑤ Set the Vessel Type. Use the + and ← keys to select the type. Press E to move to the next parameter. Go to Step ⑫ to configure Rectangular vessel.</p>	<p>Vessel Type →Cylindrical Rectangular</p>
<p>⑥ Set the Vessel Diameter. Use the ← key to switch between the digits. Use the + key to modify each digit. Press E to move to next parameter.</p>	<p>Vessel Diameter <u>10.000</u>m</p>
<p>⑦ Set the Scanner Height from vessel bottom Use the ← key to switch between the digits. Use the + key to modify each digit. Press E to move to next parameter.</p>	<p>Scanner Height <u>20.000</u>m</p>
<p>⑧ Set the distance of the scanner from the vessel center. Use the ← key to switch between the digits. Use the + key to modify each digit. Press E to move to next parameter.</p>	<p>Scanner Center Dist. <u>00.000</u>m</p>

<p>⑨ Set the Full Calibration distance measured from the scanner position and defines the 100% (20mA output). Use the ← key to switch between the digits. Use the + key to modify each digit. Press E to move to next parameter.</p>	<p>Full Calibration <u>00.500</u>m</p>
<p>⑩ Set the Empty Calibration distance measured from the scanner position and defines the 0% (4mA output). Use the ← key to switch between the digits. Use the + key to modify each digit. Press E to move to next parameter.</p>	<p>Empty Calibration <u>20.000</u>m</p>
<p>⑪ Set the Process Condition Use the + and ← keys to select the type. Press E to return to the main menu. NOTE: <i>Always work with Standard Process Condition. For other conditions select accordingly</i></p>	<p>Process Condition Slow →Standard Fast Very Fast</p>
<p>⑫ From the Main Menu screen scroll down to False Echoes Map using the ← key and press E.</p>	<p>Main Menu Output Settings Display Setting →False Echoes Map</p>
<p>⑬ To perform false echoes mapping use the + and ← keys to select the option Add to Map. Press E to move to the next parameter.</p>	<p>False Echoes Map Reset →Add To Map</p>
<p>⑭ Set the False Echoes Mapping distance from scanner position up to 1m above material or silo bottom. Use the ← key to switch between the digits. Use the + key to modify each digit. Press E to move to next parameter.</p>	<p>False Echoes Range <u>00.000</u>m</p>
<p>⑮ To confirm false echoes mapping operation select the Yes option and press E Press E to move to next parameter.</p>	<p>Approve Mapping →Yes No</p>

<p>16 Set the Vessel Type. Use the \uparrow and \downarrow keys to select the type. Press \rightarrow to move to the next parameter.</p>	<p>Vessel Type Cylindrical \rightarrowRectangular</p>
<p>17 Set the Vessel Width (X). Use the \leftarrow key to switch between the digits. Use the \rightarrow key to modify each digit. Press \rightarrow to move to next parameter.</p>	<p>Vessel X Size <u>10.000m</u></p>
<p>18 Set the Vessel Length (Y). Use the \leftarrow key to switch between the digits. Use the \rightarrow key to modify each digit. Press \rightarrow to move to next parameter.</p>	<p>Vessel Y Size <u>10.000m</u></p>
<p>19 Set the Scanner Height from vessel bottom. Use the \leftarrow key to switch between the digits. Use the \rightarrow key to modify each digit. Press \rightarrow to move to next parameter.</p>	<p>Scanner Height <u>20.000m</u></p>
<p>20 Set the distance of the scanner from the vessel center on the Width axis. Use the \leftarrow key to switch between the digits. Use the \rightarrow key to modify each digit. Press \rightarrow to move to next parameter. <i>Note: Scanner X Position cannot be bigger than Half the Vessel X Size</i></p>	<p>Scanner X Position <u>$\pm 00.000m$</u></p>
<p>21 Set the distance of the scanner from the vessel center on the Length axis. Use the \leftarrow key to switch between the digits. Use the \rightarrow key to modify each digit. Press \rightarrow to move to next parameter. Go back to step 9 <i>Note: Scanner Y Position cannot be bigger than Half the Vessel Y Size</i></p>	<p>Scanner Y Position <u>$\pm 00.000m$</u></p>

