

EJX110A Level Transmitter Installation Guide

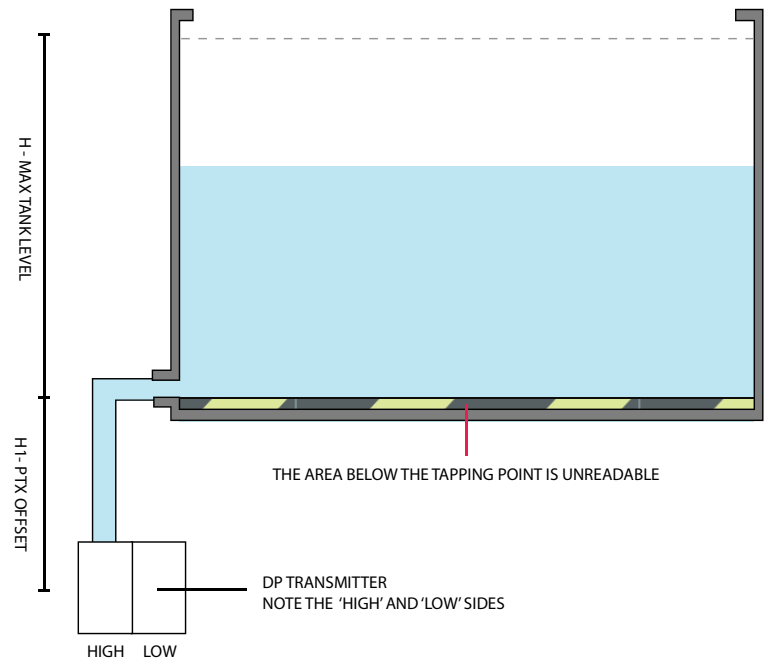
Selecting a Transmitter & Calculating Your Range

Transmitters are ranged in 'mmWG' – which is short for 'Millimeters Water Gauge'.

1mmWG is the pressure of 1mm of water on your transmitter.

So when used on water, a 1m tank will require a transmitter that can read 0-1000mmWG.

Lighter liquids provide less pressure per mm - to calculate the correct scale for your transmitter, multiply the H dimension by the specific gravity of your liquid. For example, to calculate the range on a transmitter used on a 1m tank of diesel, you would multiply the height (1000mm) by the SG (0.7) to get an effective range of 0-700mmWG.



For 0-1000mmWG, use a **low range** transmitter - EJX110A-DLS4G-924EB/SU2

For over 1000mmWG, use a **medium range** transmitter – EJX110A-DMS4G-924EB/SU2

Installation

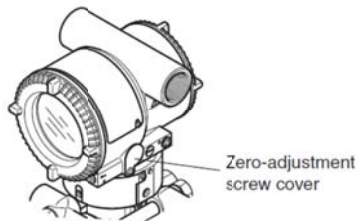
Your transmitter must be connected to a tapping point that is as close as possible to the bottom of your tank, as the transmitter can only read the volume of liquid *above* it.

You can connect it directly to the tapping point, or connect it via pipework. However, the pipework must also lead downwards and must not contain any loops.

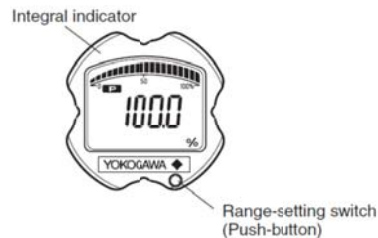
PLEASE NOTE: The 'H1' dimension (the distance from the tapping point to the transmitter) may not exceed the 'H' dimension (the height of the tank).

Finding Controls

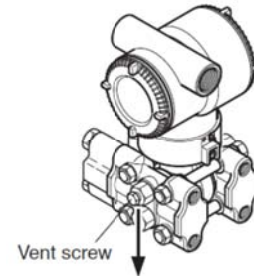
The zero adjustment screw is located under a small metal plate on the right-hand side of the transmitter. Use a screwdriver to loosen the cover and access the adjustment.



The range-setting switch is located underneath the display – you will need to unscrew the clear front cover in order to access it.



The vent plug (or vent screw) is plugged into the body of the transmitter. If you loosen the nut at the tip of the plug, you will allow the liquid to vent.



Commissioning Un-Configured Transmitters

In most cases, your transmitter would have been ordered pre-configured to the suitable range in your tank. If this is true, you may skip this section and go to the section on *Commissioning Configured Transmitters*.

- 1) Power up your transmitter.
- 2) Open the **vent screw** on your transmitter.
- 3) Fill the tank to the minimum level (so that liquid is flowing from the **vent screw**) and tighten the screw to prevent further bleeding.
- 4) Unscrew the cap over the display to access the buttons and release the cap over the zero screw.
- 5) Press the **range setting button**. The screen should say 'L SET'
- 6) Adjust the **zero adjustment screw** until the display reads '0%'. This sets the minimum range of your transmitter.
- 7) Press the **range setting button** again. The display should now read 'H SET'
- 8) Fill the tank to the top.
- 9) Adjust the **zero adjustment screw** until the display reads '100%'. This sets the maximum range of your transmitter.
- 10) Press the **range setting button** one last time to return to normal operation – your transmitter is now configured to the range of your tank.
- 11) Re-attach the display and zero adjustment screw cover.

Commissioning Configured Transmitters

If your transmitter has been delivered already configured, you have no need to set the range. Instead, you simply need to perform a *zero adjustment* to get the transmitter set up in its new home.

- 1) Power up the transmitter.
- 2) Open the **vent screw** on your transmitter.
- 3) Fill the tank to the minimum level (so that liquid is flowing from the **vent screw**) and tighten the plug to prevent further bleeding.
- 4) Unscrew the cap over the zero adjustment screw.
- 5) Adjust the **zero adjustment screw** until the display reads 0%.
- 6) Re-attach the cover.