

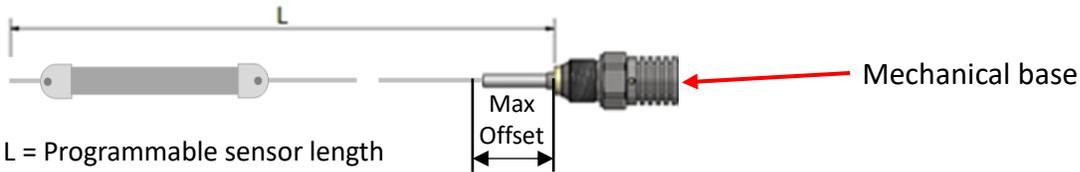
Quick Setup Guide for WLT-C Wire Level and Controller Sensor Transducer Probe



Installation steps

Scan the QR code for the Bulletin: <https://www.hantech.com/product-list/wire-level>

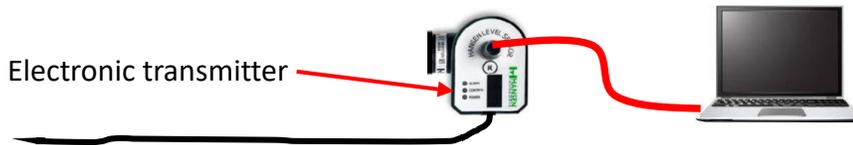
1. Separate the electronic transmitter from the mechanical base.
2. Determine probe sensor wire length.



L = Programmable sensor length
 L = Wire length

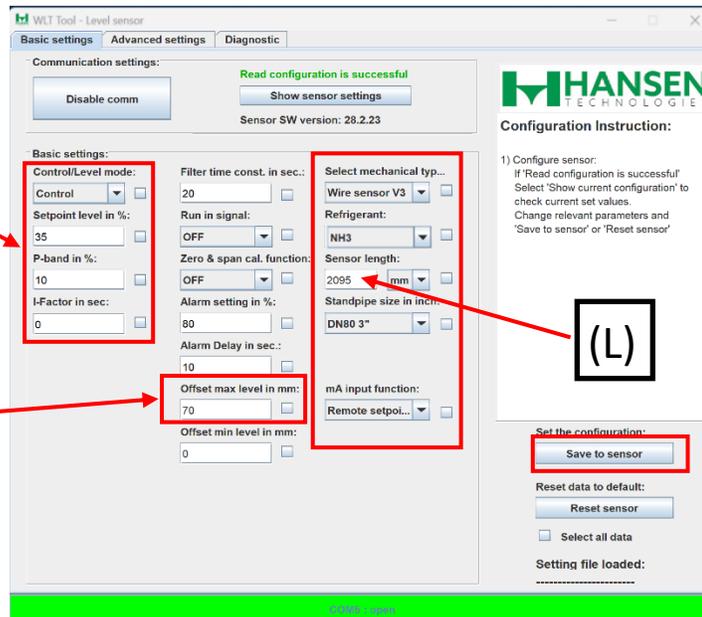
Allow for minimum of 2 inches (50 mm) clearance from tip of the wire to the bottom of the column.

3. Use the M12 to USB-A programming cable and the Hansen software tool (available at <https://www.hantech.com/product-list/wire-level>) to set up the Basic settings of the probe and Save to sensor.



Recommended settings:
P-band = 10%
I-Factor = 0 sec

Typical Offset max level is 2.75" (70 mm)

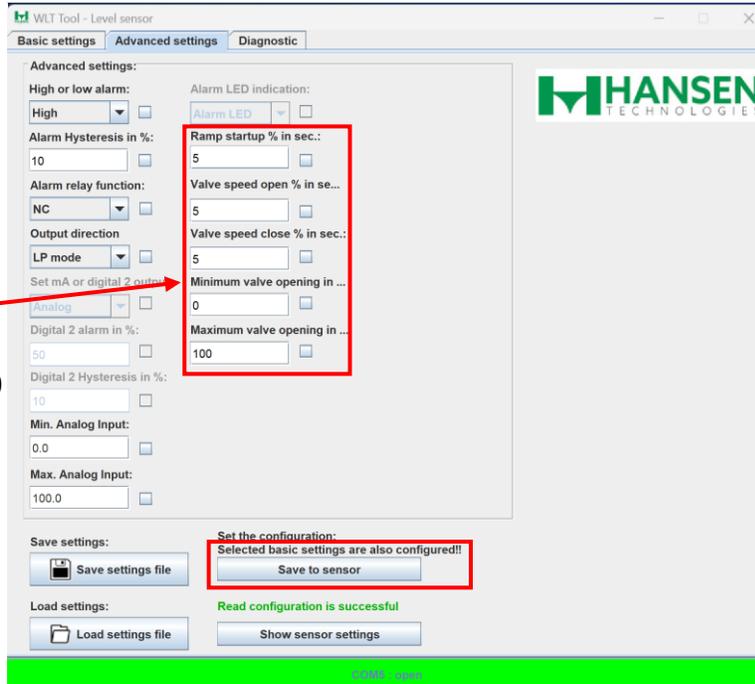


Note: Positioning the cursor over the selections will provide more detail descriptions

Make sure to select the Mode to “Control” and the other settings noted with Red boxes.

4. Set up the Advanced settings of the probe and Save to Sensor.

Recommended settings:
Ramp startup = 5
Valve speed open = 5
Valve speed close = 5
Min valve opening = 0
Max valve opening = 100



Note: Positioning the cursor over the selections will provide more detail descriptions

5. Cut wire to correct length and attach counterweight.

Wire Adjustment

The sensor length is determined by column length. Cut the insulated steel wire to the desired measuring length with wire cutters as shown below.



To install the sensor, you must use a 2.5 mm hex key, and a wrench.

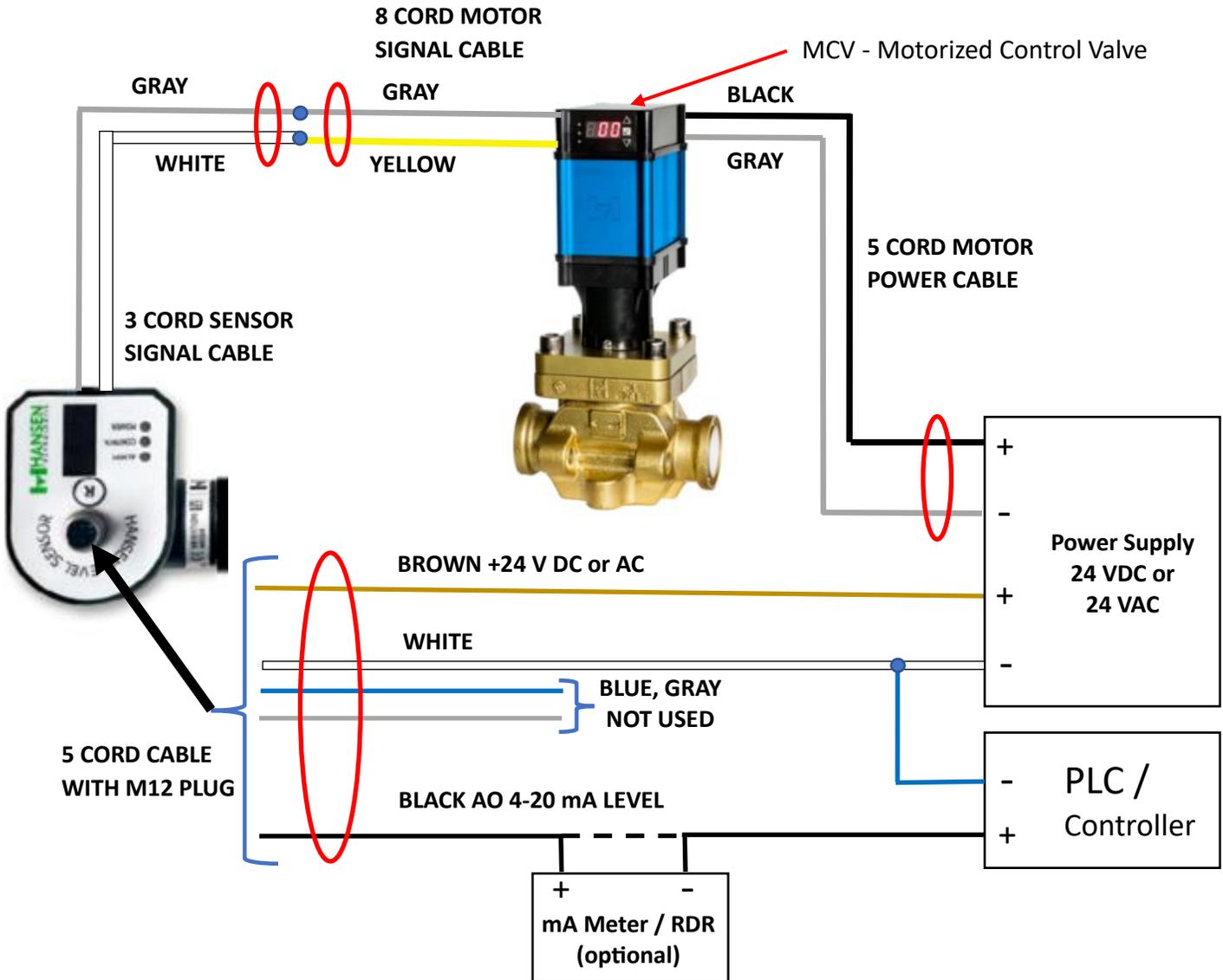


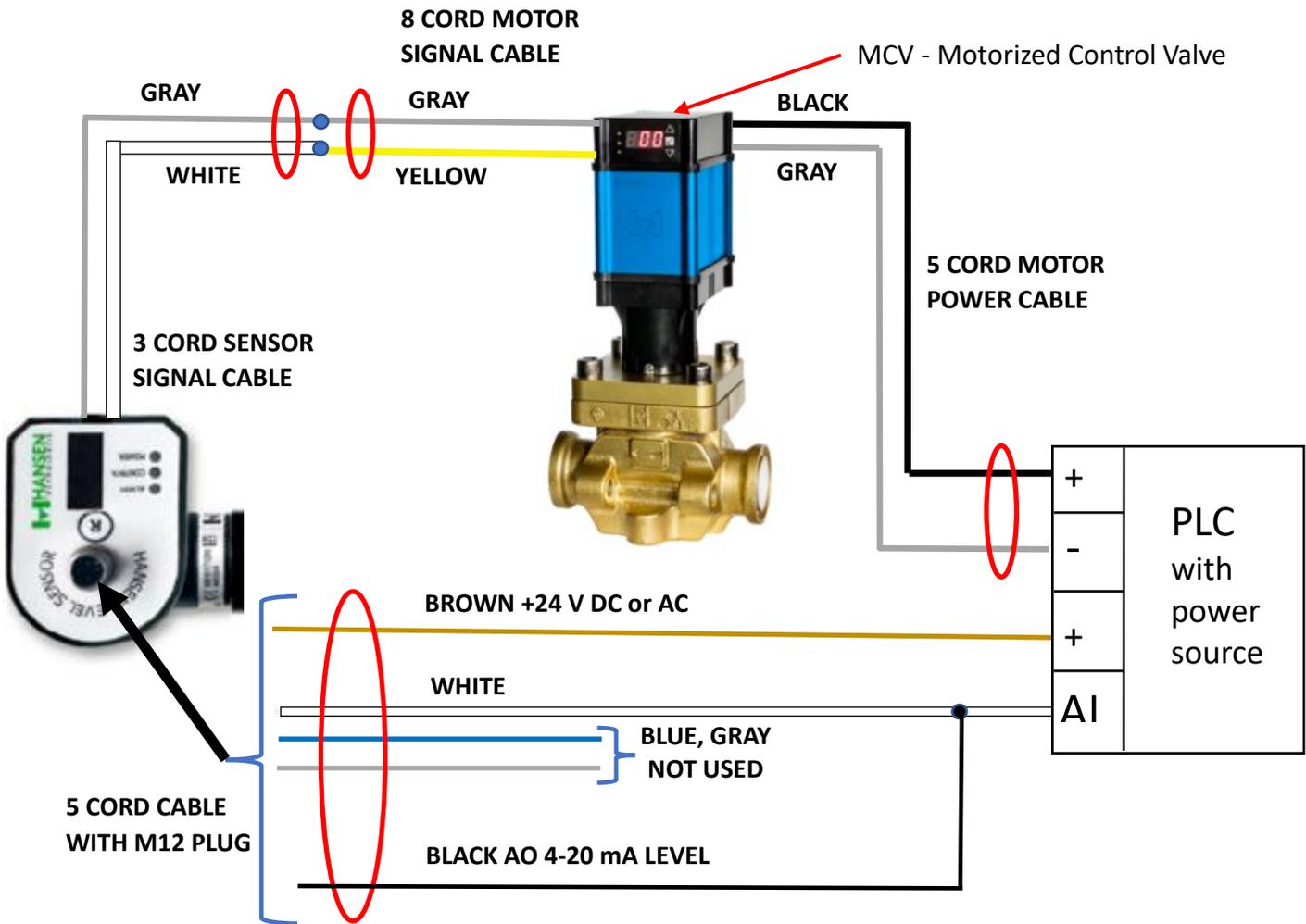
Define the required length of sensor from column. Shorten the wire with wire cutter.



Put the wire all the way through the counterweight until it protrudes (1/4" to 1/2") and tighten (approx range 3.5-4.0 in-lbs) the two set screws with the 2.5 mm hex to fix it to the wire. Do not remove the insulation on the wire. Do not over tighten the screws.

6. Wire per schematic below with Hansen’s MCV (Motorized Control Valve).
For setting up the MCV refer to the bulletin on the Hansen website.
The sensor output is a 4-20 mA provided on the M12 plug. The signal is linear to the level.





7. Install the mechanical base in the column. Use non-electrically isolating pipe sealant for the 3/4" NPT connection. Do not use Teflon tape.
8. Attach the electronic transmitter to the mechanical base in the column.
9. Connect the M12 plug to the electronic transmitter.
10. Connect the electronic transmitter to the MCV valve and the MCV valve to the power supply / PLC. Ready to use.