

Installing C1420 on the PLS Pressure Transducer

The following are steps that describe the installation of the C1420 desiccant filter onto the vent tube of the PLS pressure transducer. C1420 is used to prevent water vapour from entering the vent tube and damaging the inner cavity of the sensor.

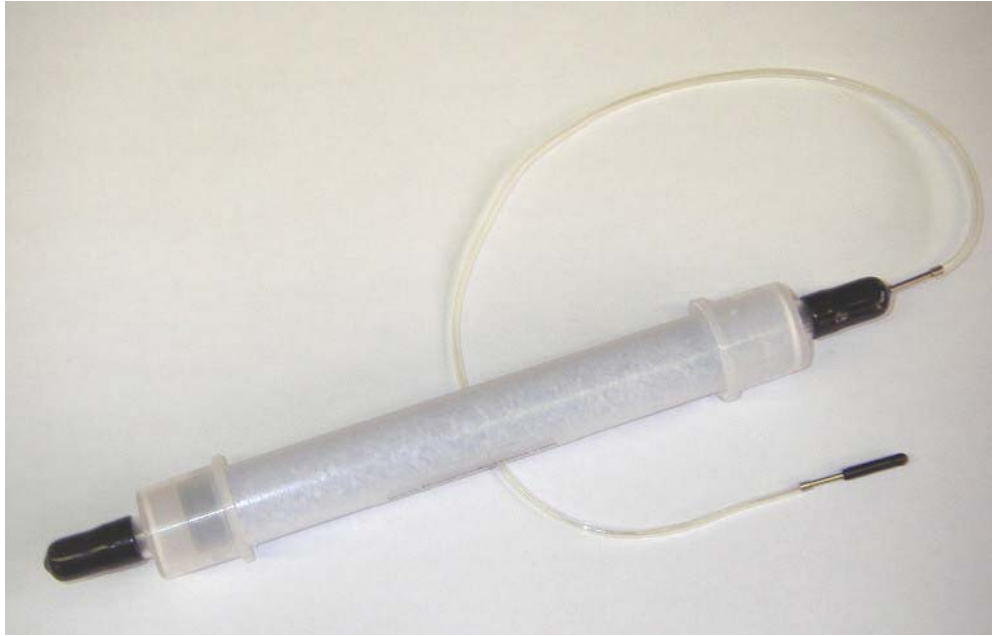


Figure 1: C1420 Desiccant Filter

These instructions will in most cases need to be followed after the PLS has been installed and the sensor cabling has been run into the appropriate datalogger enclosure. The reason for this arrangement is to allow flexibility during the installation of the PLS.

Use the following steps to install the C1420.

1. Start with the removal of the metal connector tube and black end cap located at the end of the C1420 plastic tubing (Figure 2).
2. Connect the C1420 tube to the PLS vent tube by sliding the C1420 tube over the PLS vent tube (Figure 3).
3. Be sure that the C1420 is secure in the enclosure.
4. Once ready for use, remove stop cap from end of C1420.

In applications where a QDP PLS is used the C1420 will need to be removed from the QDP PLS and reattached after the QDP is installed. Step 1 can be skipped in this case.



Figure 2: C1420 Connector Tube

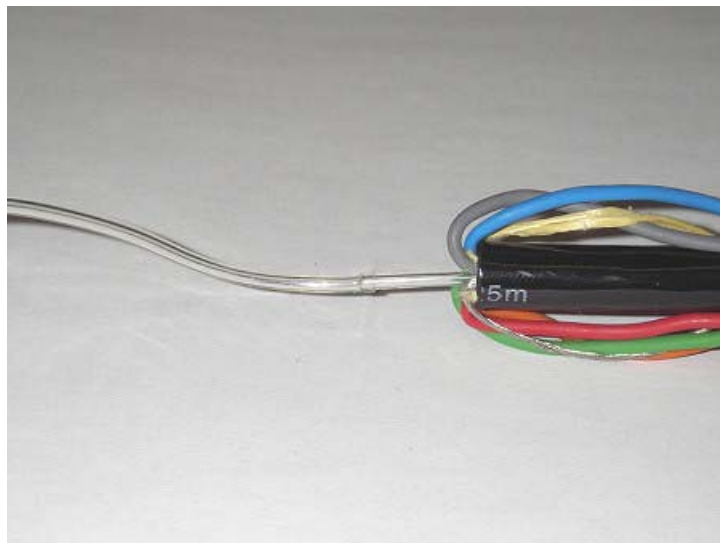


Figure 3: C1420 Connected to PLS

Notes:

- a) The PLS can be damaged if water enters the vent tube. Therefore it is important to connect the C1420 and ensure the desiccant is changed on a regular basis. This timeframe will vary depending on location.
- b) The desiccant must be changed when the color changes from blue to pink. Replacement desiccant tubes, part C1420, can be purchased from Campbell Scientific.