



Model SLX 170 Level Transmitter Installation Instructions

Important:

Slowly lower this Level Transmitter into the tank/media. Dropping the Level Transmitter into the tank/media may over-pressure and damage the sensing element.

General

CONTEGRA's SLX 170 transducer is designed to be vertically mounted. It should be mounted above sludge that may accumulate at the bottom of the vessel. Typically, the transducer's diaphragm is mounted at least six inches above the bottom of the vessel. Contegra offers several mounting options:

Suspended by its signal cable:

1. **Basic Mounting:** This mounting method, described below, is offered free with each SLX 170. This method is not recommended for turbulent applications. This method is provided to protect the signal cable. More robust methods are listed below.
2. **CH-SLX1**—a "sliding wedge" cable hanger which provides superior holding strength (ref. 10179-0001)
3. **CH-SP1** The CH-SP1 is a 12" length of 316SS pipe which is threaded at one end and has a welded hasp at the opposite end. The pipe threads into the SLX 170's integral 3/4" FNPT fitting. A stainless steel cable (e.g. FS-SC-XX ... Sold Separately) attaches to the hasp. This method allows the operator to remove the transmitter via a stainless steel cable rather than by pulling on the signal cable. (ref. 10177-0001-04)

SLX-Basic Mounting (AKA Pendent Mounting)

The transducer is self-suspended / pendant-mounted as shown at right and described below:

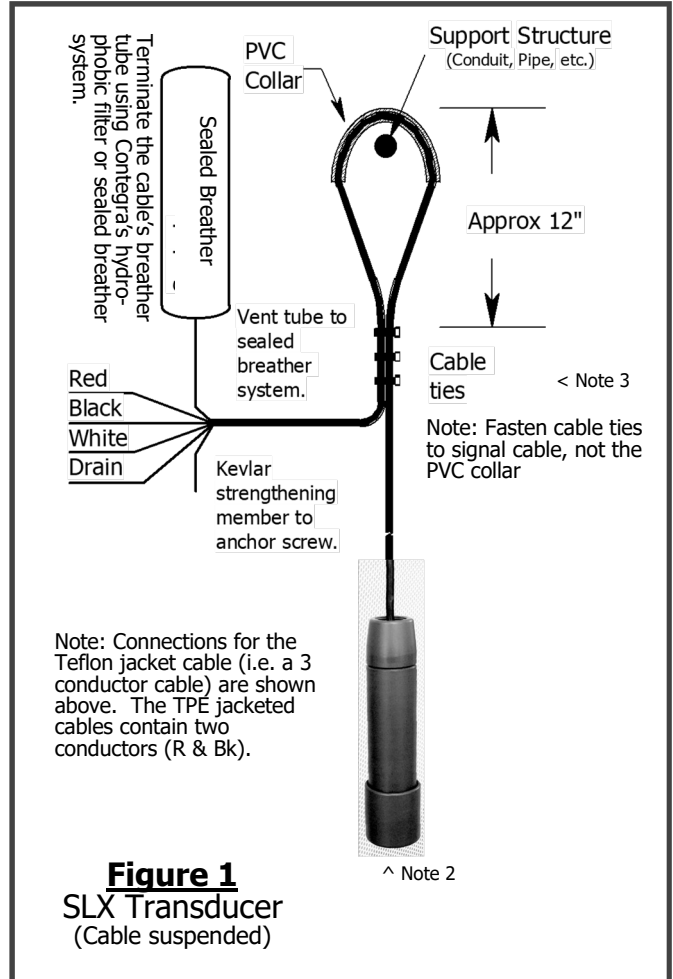
- 1) Locate an appropriate support structure immediately above the point at which the transducer is to be installed. The support structure must be capable of supporting the transducer's weight and be constructed so as to ensure long-term reliability in a possibly corrosive environment.
- 2) Slip the transducer's cable into its PVC collar and position the collar over the support structure.
- 3) Center the PVC collar on the support structure. The collar provides abrasion resistance for the cable and ensures that the transducer's cable is not severely bent or kinked, thus restricting or prohibiting air flow through the cable's integral breather tube.
- 4) Secure the transducer's cable over the support structure by applying several cable ties¹ separated by approximately 4 inches (Ref Fig 1). Cinch the cable ties to the signal cable and NOT around the support collar.

This transducer's signal cable contains a breather tube. During installation, protect the breather tube so that debris & moisture do not enter the tube. After pulling the signal cable to its destination, the breather tube must be protected by using the supplied hydrophobic vent **or** sealed breather assembly.

The hydrophobic vent (Suffix -H on the SLX 170 Model number) is supplied as the standard option. The sealed breather system (Suffix -B) is also available. The -H and -B options (suffixes) are mutually exclusive.

Notes:

1. Periodically inspect the transducer's mounting; ensure that it is secured at the proper level and has multiple cable ties securing it at the proper elevation
2. The sensor's output, (e.g. M=mA) max. pressure range (e.g. 5#) OR calibrated range (e.g. 10') and order number are engraved on the bottom of the transmitter (i.e. encircling the diaphragm).
3. A minimum of 6 cable ties are provided.
4. Shielded cables must be grounded at only one end of a run.



Cable Connections			
Wire color Version	Red	Black	Drain/ Shield
SLX 170-M (Teflon)	Loop input	Loop return	Ground (Note 4)
SLX 170-M (TPE)	Loop input	Loop return	Ground (Note 4)

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