



# Model SLX 160 Transducer Installation Instructions

## General

CONTEGRA's SLX 160 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.SLX-Basic Mounting** (see below) — This is the basic mounting method and is supplied at no added cost with each SLX 160. It 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 "cable hanger" which provides superior holding strength (ref. 10179-0001)

## SLX-Basic Mounting (AKA Pendant Mounting)

The transducer is cable suspended as shown at left 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 to ensure long-term reliability in a possibly corrosive environment.
- 2) Slip the transducer's cable and its PVC collar over the support structure.
- 3) Center the PVC collar on the support structure. The collar provides abrasion resistance 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 ties<sup>1</sup> separated by approximately 4 inches (Ref Fig 1).

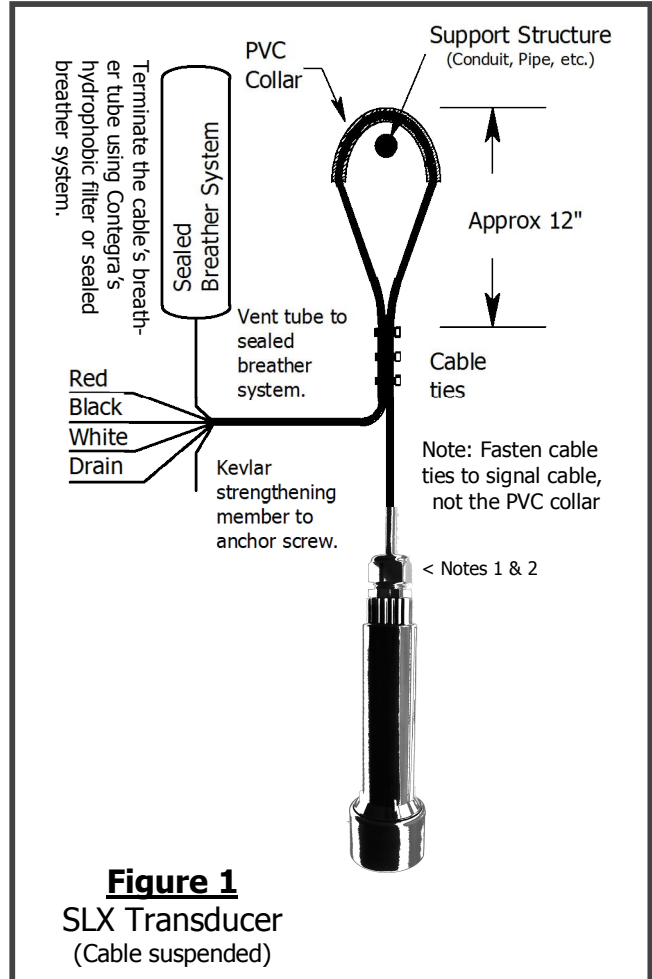
*Note: periodically inspect the transducer's mounting; ensure that it is secured at the proper level and has multiple cable ties securing it at the proper elevation.*

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 sealed and protected by using the supplied hydrophobic vent **or** sealed breather-bag assembly.

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

### Notes:

1. The sealing gland, located at the top of the transducer, is not removable.
2. The sensor's output, (e.g. M=mA), calibrated range (e.g. 5# or 10' ) and order number are engraved on the sealing gland.



**Figure 1**  
SLX Transducer  
(Cable suspended)

Cable Connections				
Wire color Version	Red	Black	White	Drain/ Shield
SLX 160-M (Teflon) <sup>3</sup>	Loop input	Loop return	No connection	Ground <sup>2</sup>
SLX 160-M (TPE)	Loop input	Loop return		Ground <sup>2</sup>

### Footnotes:

- 1) Minimum of 6 provided
- 2) Shielded cables must be grounded at only one end of a run.
- 3) The Teflon jacketed cable contains a WHITE conductor which is not used.