

QUICK START FOR KSONIK MICRO LP

INTRODUCTION

The KSONIK MICRO range works on the non-contact principle of ultrasonics. A pulse of energy emits from the Transducer at the speed of sound and is detected on its return. The Transmitter can distinguish the difference between the correct echo and other ambient noise. When the signal returns, the KSONIK MICRO measures the time period, and then knowing the speed of sound, it can accurately calculate the distance from the material to the Transducer. If you have purchased the KSONIK MICRO LP the Microprocessor will adjust the display and 4-20 mA output accordingly.

QUICK START for the KSONIK MICRO LP

Initially the default unit of measurement (meters) must be changed to feet. Refer to page 4 for the method of changing parameters and select "ft" in the "Unit" parameter, "ENTER" it and press "RUN"

KSONIK MICRO was designed with a very simple configuration program. This allows the technician to set up KSONIK MICRO without the aid of a complicated source codebook. There are no references to any codes in KSONIK MICRO. The set up procedure is all menu driven.

KSONIK MICRO LP WIRING CONNECTIONS

Simply connect the regulated power supply to positive and negative terminals. A multi-meter can be placed in series with the positive supply to measure the mA output. Aim the Transducer at a wall about 3 ft away and check the display. It should read the following:

13.4

If the reading is below 13.4 ft then move the transducer closer to the wall.
If the reading is above 13.4 ft then move the transducer away from the wall.
You may now proceed and check other distances.

TERMINAL CONNECTIONS KSONIK MICRO LP



CONNECTIONS

Power Supply and Output

- Negative 4-20 mA and power
- + Positive 4-20 mA and power
Loop Powered



INSTALLATION

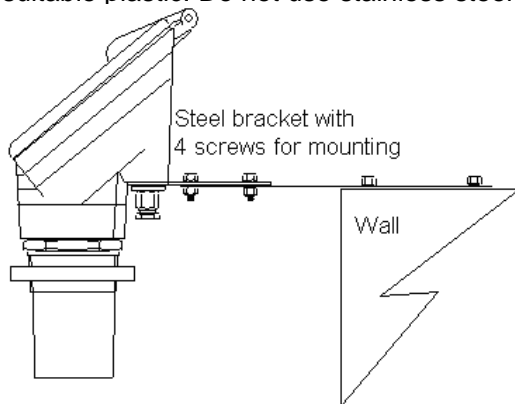
The KSONIK MICRO LP is protected to IP65. The Transmitter is dust and waterproof so it can be mounted outside. The KSONIK MICRO LP should be mounted using the bracket supplied.

Do not install the KSONIK MICRO LP in areas of high vibration as this may cause failure.

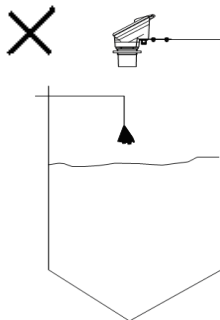
Do not install the KSONIK MICRO LP in the close vicinity of electrical cable, SCR's or variable speed drives.

The installation of KSONIK MICRO LP is the most important section of the user manual and has been divided up into 6 sub sections.

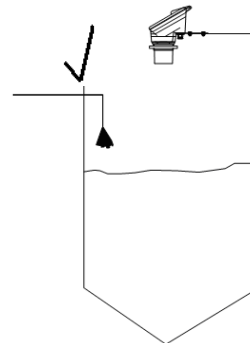
1. The KSONIK MICRO LP must be fitted at least 1.64 ft / 0.5 m above the highest point of level.
2. Always use the plastic nut. The KSONIK MICRO LP must be fitted to a rigid support. Use mild steel or a suitable plastic. Do not use stainless steel as this can cause ringing.



3. The KSONIK MICRO LP must be perpendicular to the material it is measuring with a clear line of sight and must not be above beams or filling points.



THIS IS INCORRECT
AS THE FILLING
POINT IS
OBSCURING THE
KSONIK MICRO'S
LINE OF SIGHT

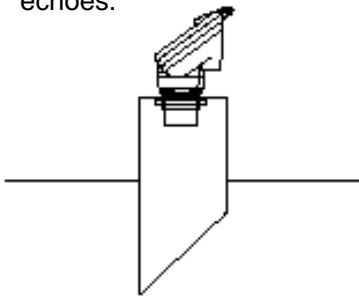


THIS IS CORRECT
AS THE FILLING
POINT IS NOT
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KSONIK MICRO'S
LINE OF SIGHT

4. If the KSONIK MICRO LP is in a coned vessel, it must be positioned over the cone. This ensures that the Transducer receives the true echo and not one from the sides of the cone.



5. The transducer should be perpendicular to liquid level.
6. When a standpipe is being used it must be as wide as possible; i.e. the pipe diameter must be at least half its height, preferably made of plastic. The base MUST have a 45° chamfer to reduce the echo size from the bottom of the standpipe. No welding should be present on the inside of the pipe as this causes false echoes.



7. If any large electrical equipment is installed in the vicinity, then earthed steel conduit must be used.

SECURITY CODE

To advance to the programming mode the correct security code must be entered. The factory default code is 5159. This code can be changed in the programming mode. If you forget the security code please contact your local K-Tek Instruments agent for the override code.

Please see manual on CD for FULL installation instructions

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