



KSONIK III

Long Range Ultrasonic Level / Flow Transmitter

The KSONIK III is an Ultrasonic Level Transmitter capable of measuring two separate levels in liquid or solid applications up to 195 ft. / 60 meters, or flow rates in all types of open channel flow applications. The unit is available with two 4-20 mADC analog and five (5) relay outputs. A system can consist of up to two transducers and a single transmitter with the transducer(s) installed at the top of a silo or tank, facing down towards the material being measured.

The transmitter's microprocessor simultaneously fires an electronic pulse to the transducer and starts a timer. The transducer converts this electronic pulse to an acoustic pulse, which is directed toward the surface of the material being measured. When the acoustic pulse contacts the surface of the material, energy is reflected back to the transducer, which converts this reflected energy back to an electronic pulse. This pulse is sent back to the microprocessor, which stops the timer and determines the "time of flight" of the signal. By combining the speed of sound through air and the "time of flight" of the pulse, the microprocessor accurately determines the level of the product. Powerful software removes false echoes from the signal and electronic filters remove ambient noise.



FEATURES

- Long range up to 195 ft. / 60 m
- · Graphic LCD Display
- Single or Dual Channel Configuration
- 5 Configurable Relays / 8 Amp
- Pump Cycling & Pump Monitoring
- · Remote Totalizer Count Outputs
- · Configurable as a Single or Dual Open Channel Flow Meter
- Differential Level Measurement
- Integrated Analytical KSCOPE Software
- Automatic Variable Gain & Power for Difficult Applications

OPTIONS

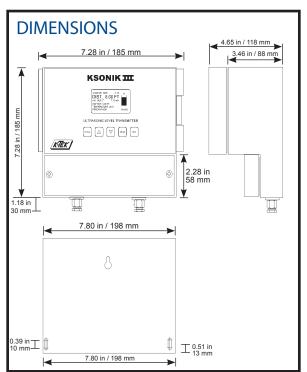
- · Transducers for Liquids, Solids & Corrosive Liquids
- · Windows Based Configuration Software
- Aiming Kit

SPECIFICATIONS

Enclosure	Polycarbonate with clear hinged lid; IP65 / NEMA 4		
Power Supply	110 VAC or 240 Y	VAC; ±15% 50/60	Hz, 8VA
Dimensions	8.4 x 7.3 x 4.7 inches / 213 x 185 x 118 mm		
Weight	3.52 lbs / 1.6 kg		
Temperature Range	-22 to 149°F / -30 to 65°C		
Output	Analog: 1 ea. (Single Channel) or 2 ea. (Dual Channel) 4-20mA isolated; 16 bit resolution; 750 ohm max. resistance		
Relays	5 x SPDT 8 AMPS 240 VAC Fully Configurable		
Range	195 ft. / 60 m		
Accuracy	0.25% full span with temperature compensation		
Local Indication	128 x 64 dot graphic display		
Configuration Blanking Distance	5 touch button keys or optional KSCOPE Software Refer to Ultrasonic Transducer & Accessories ACS-0003-1		
Rate of Change	0.03 to 65 ft. / mi	,	m / minute
Classification	General Purpose		
CE Mark	EN 50082-2 EN 50081 EN 61010-1	Immunity Emission Safety	\in

APPLICATIONS

- Great For Sumps or Lift Stations With Up To Five Pumps
- Cost Effective Level Measurement For Multiple Silo Applications
- Versatile: Short or Long Range Liquid or Dusty Solids Applications
- Open Channel Flow Measurement in the following configurations:
 - V-NotchFlumesWeirs



ORDERING INFORMATION

KSIII/a/b

- /a Power Supply
 - 120 VAC and 220 VAC
- /b Instrument Type
 - S Single Channel
 - D **Dual Channel**

Ordering Notes:

- Transmitter, Transducer(s) & Accessories must be ordered separately.
- The listed transducers below are compatible with the KSONIK III
- For a dual transmitter type (/D), identical transducers must be used with the KSONIK III

TRANSDUCERS

(order separately; refer to Transducer Data Sheet ACS-0003-1 for complete details)

Model	Measuring Range	
K10	Liquids (50 ft. / 15 m max) or Solids (16 ft. / 5 m max)	
K10F	Solids (50 ft. / 15 m max)	
K10T3	Corrosive Liquids (50 ft. / 15 m max) with 3" PTFE Lined	
	Flange	
K10T4	Corrosive Liquids (50 ft. / 15 m max) w/ 4" PTFE lined flange	
K20	Liquids or Solids (100 ft. / 30 m max)	
K20H	Powders (100 ft. / 30 m max)	
K60	Liquids or Solids (195 ft. / 60 m max)	
Note: All tra	ansducers are supplied with 16 ft. (5m) cable lengths. For	
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temperature compensation add "C".

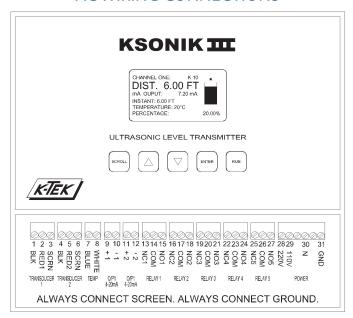
AVAILABLE ACCESSORIES

Aiming Kit (304 SS Mounting & Clamping Plates) **AKIT**

KSCOPE KSONIK Scope Software

EXT-Transducer cable length is available up to 328 ft (100m). If **CABxxx** customer requirement is greater than 16 ft (5m) standard length, then specify total cable length in feet (xxx).

AC WIRING CONNECTIONS

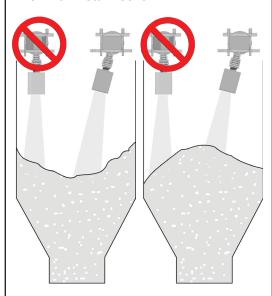




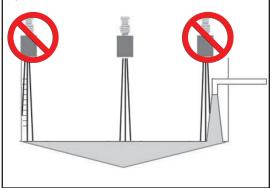
MOUNTING RECOMMENDATIONS

Solids Installation Recommendations

Aiming Kit is recommended to aim at middle of silo. This helps to get the maximum return echo.



Liquids Installation Recommendations installations where obstructions or fill lines interfere with beam path.



Website: ktekcorp.com