



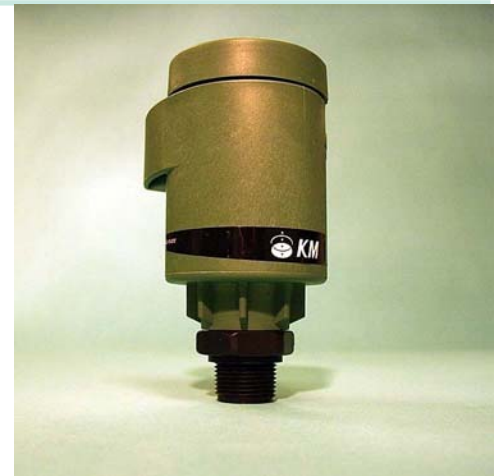
Technical Specifications

hydra-wave Tote and Drum
Ultrasonic Level Transmitter

Transmitter provides accurate and reliable measurements up to six feet.

The two-wire, Tote and Drum ultrasonic level transmitter is mounted through the top wall of the tank and provides non-contact measurement up to 6 feet. With non-contact technology, the transmitter is an excellent choice for applications with dirty, coating, or corrosive type liquids. The compact design is the perfect size for small tank applications.

A high frequency ultrasonic sound wave is pulsed two times per second from the base of the transducer. The sound wave reflects against the process medium below and returns to the transducer. The microprocessor based electronics measure the time of flight between the sound generation and receipt, and translates this figure into the distance between the transmitter and process medium below.



Features & Benefits

- Accurate and reliable measurement from 0.36 feet to 6 feet
- Low cost solution for OEM and process applications
- Compact size and 3/4 inch NPT transducer for small tanks
- Polypropelene enclosure rated NEMA 4X with PVDF transducer
- Digital signal filtration eliminates false echo signal returns
- Fail-Safe intelligence provides maximum process safety



Features & Benefits Continued...

| | |
|--------------------|-----|
| General Purpose | Yes |
| Conductive | Yes |
| Non-conductive | Yes |
| △ Conductive | Yes |
| Non-contact | Yes |
| Clean | Yes |
| Dirty | Yes |
| Coating | Yes |
| Non-coating | Yes |
| Ambient pressure | Yes |
| Low pressure | Yes |
| Medium pressure | No |
| Intrinsically safe | No |
| Integral relay | No |
| Foam | No |
| Contact | No |
| Vapors | No |
| △ Gas density | No |
| Vacuum | No |

Specifications

| | |
|------------------|---------------------------------------|
| Range: | 0.36 to 6' (11 cm to 1.8 m) |
| Accuracy: | ± 0.25% of span in air |
| Resolution: | 0.125" (3 mm) |
| Frequency: | 83 kHz. |
| Pulse rate: | 2 per second |
| Beam width: | 8° conical |
| Dead band: | 0.36' (11 cm) minimum |
| LED indication: | Power status & Fail-safe diagnosis |
| Fail-safe diag.: | Relay inverts to safe position |
| Supply voltage: | 12-36 VDC |
| Loop resistance: | 600 ohms @ 36 VDC |
| Signal output: | 4-20 mA, 2 wire |

| | |
|-------------------|--|
| Temp. rating: | F: -40° to 140° C: -40° to 60° |
| Pressure rating: | 30 psi (2 bar) @ 25°C., derated @ 1.667 psi (.113 bar) per °C. above 25 °C. |
| Enclosure rating: | NEMA 4X (IP65) |
| Enclosure Mat'l: | Polypropelene (U.L. 94 VO) |
| Transducer Mat'l: | PVDF |
| Mounting threads: | 3/4" NPT |
| Mounting gasket: | Viton (3/4") |
| Conduit conn.: | 1/2" NPT |
| CE Compliance: | EN 50082-2 immunity EN 55011 emission EN 61010-1 safety |



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Specifications subject to change without notice.
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