INTROTEK®
Excellence in Ultrasonic Technology™

**The Introtek Advantage**
provides products of unsurpassed quality, functionality and dependability that are manufactured to the highest medical device standards and backed by a one-year warranty.

# CLM / Continuous Level for Metal vessels Detector

*A pulsed ultrasonic, non-invasive, continuous level sensor, field scalable for small to large containers and vessels for industrial, pharmaceutical, laboratory and food & beverage applications.*


INTROTEK's Continuous Liquid Level Detector (CLM) is available in standard configuration. The unique pulsed, non-invasive design enables bottom up liquid level detection in vessels and tanks to be monitored quickly, accurately and dependably.

## TECHNOLOGY

INTROTEK pulse-type ultrasonic technology provides highly reliable, non-invasive liquid level and air detection capabilities in the most critical applications. Introtek sensors serve not only the medical community but a wide range of industrial applications where fluid monitoring is critical.

## HIGHLIGHTS

INTROTEK CERTIFICATIONS

TÜV SÜD ISO 9001

- Reliable pulse-type, non-invasive technology with electronics options available per your specification.
- Standard dip switch capability providing field adjustment for eight various discreet tank levels and is maintenance free.
- Designed for use with stainless steel, copper, aluminum, teflon, plastic and fiberglass.
- Provides constant analog signal depicting precise liquid level.
- Bi-color LED visual indicator assuring optimum transducer placement.
- High noise immunity to EMI and RFI.
- Operates under a wide variety of supply voltages.

## APPLICATIONS

- Liquid Level Detection with a continuous analog output signal. In addition to a wide array of uses, the CLM is utilized to enhance and improve processes for the following applications:
  - Industrial automation
  - Liquid dispensing
  - Pharmaceutical manufacturing
  - Clinical laboratory
  - Chemical waste management
  - Food & beverage production
  - Military applications

# CLM / Continuous Level Metal Detector

## SENSOR PART NUMBER

**Standard Configuration P/N CLM-0000-000**
Please contact an Introtek Application Specialist to inquire about custom configurations for your application.

## FUNCTIONAL SPECIFICATIONS

**Supply Voltage:**
9 VDC – 36 VDC

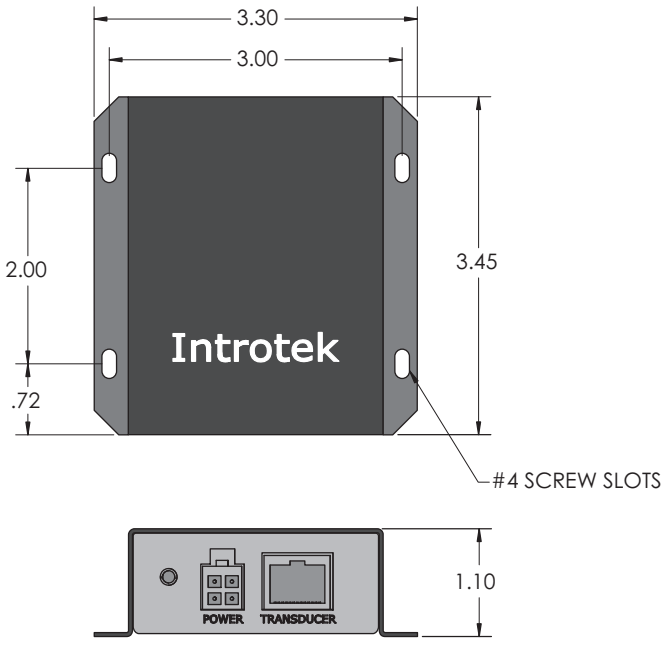
**Supply Current:**
Less than 50 mA

**Analog Output:**
0 to 5 VDC and is proportional to liquid level.

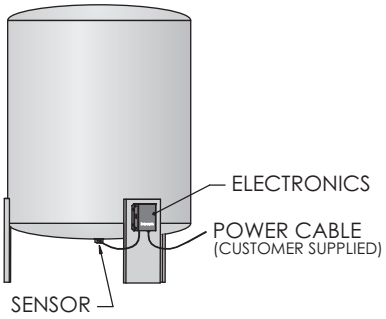
**Operating Temperature:**
+41 to +140 °F (+5 to +60 °C)
(Application Dependent)

**Humidity:**
0% to 95% Non-Condensing

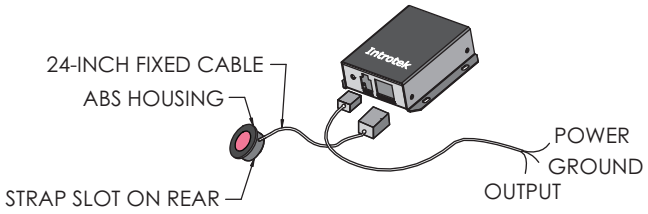
**Response Time:**
Adaptive/Application Dependent (≤ 30 sec.)




Sensor Electronics Enclosure




Sample Installation



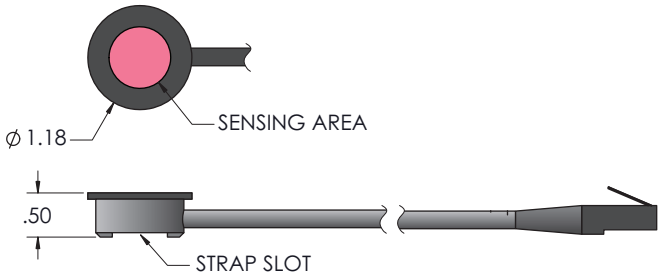

Sensor, Electronics and Power Cable

## ONE-YEAR WARRANTY

The CLM sensor is warranted free of defects in materials or workmanship for one full year from the date of original factory shipment.

System must have original factory product label attached when returned or warranty is null and void. Epoxy or permanent installation of transducer will completely null and void warranty for the transducer only. If returned within the warranty period; and upon factory inspection of the unit, the cause of the malfunction is determined to be defective material or workmanship; INTROTEK will repair or replace the system at no cost to the purchaser (or owner) other than transportation.

INTROTEK shall not be liable for misapplication, labor claims, direct or consequential damage or expense arising from the installation or use of the equipment. There are no other warranties expressed or implied, except special written warranties covering some INTROTEK products.




Transducer View

INTROTEK®

**Introtek International, L.P., Subsidiary of Magnetrol International, Incorporated**
**150 Executive Drive • Edgewood, New York 11717-9998**
**631-242-5425 • Fax 631-242-5260 • www.introtek.com • info@introtek.com**



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**EFFECTIVE: January 2014**