

Ultimo Measurement LLC
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160 Suddard Lane
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Non-invasive, in-line process material measurement

The Ultimo Density Meter is a non-invasive technology and meter that continuously measures the density of any slurry, loose solid or liquid.

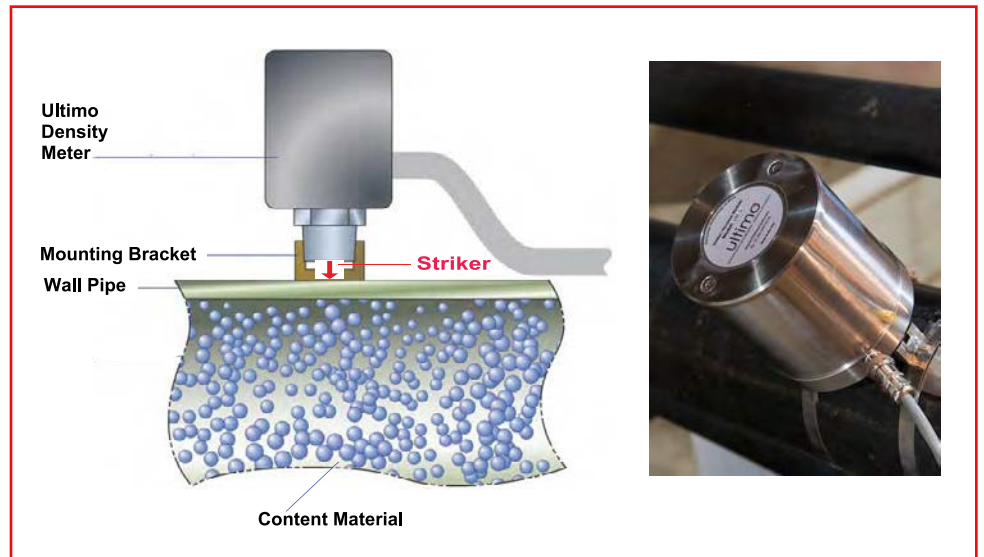
Non-invasive ◀

Inline density measurement ◀

No radiation ◀

Ideal alternative to nuclear ◀

Made in the USA ◀



Measurement Principle

Ultimo's proprietary vibration-based Percussion technology generates, acquires and analyzes oscillations at the pipe wall to measure the density of the material inside. Self-learning software discriminates between valuable and ambient vibrations. Ultimo's proprietary state-of-the-art algorithms provide exceptionally precise measurements.

Finally an Alternative to Nuclear

Ultimo is the only producer of non-invasive Percussion-based technology worldwide. Years in development and field tested on five continents Percussion technology is the method of choice for abrasive, caustic, and high solids content material.

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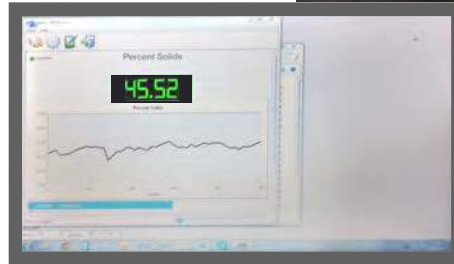
**Real-time
process
measurement** ◀

**Install on
any pipe** ◀

Non-invasive ◀

Made in the USA ◀

Ultimo
Density Meter



Ultimo
Density Meter
Monitor Display

Advantages of Non-invasive measurement with Ultimo's Patented Percussion technology

- No clogging, leaks or pressure loss
- Fits all standard sized pipes – metal or plastic
- Installs in minutes without process interruption
- Interactive installation wizard
- Accurate and repeatable across all flow rates and density ranges
- Unaffected by system vibrations
- % solids measurement
- No routine maintenance

Benefits

- Eliminates the administrative burden of nuclear
- Safer for the Operator and the Plant
- Expand valuable points of measurement
- 24/7 reliability
- Read density, trend or deviation
- Lowers cost without compromise
- Made in the USA
- Mass Flow calculation
- Auto Tuning

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Technical Specifications

Power	110/220 VAC
Output:	Analog : 4-20 mA current loop Digital: ModBus RTU (on RS 485) 20A Relay Contact @ 110/220 VAC
Modules	IP 66 or NEMA 4X / stainless steel

Install anywhere ◀

Non-invasive ◀

No radiation ◀

Inline density measurement ◀

Ultimo Measurement, LLC is a privately held industrial process control technology development company dedicated to inline, real-time, non-invasive measurements using our proprietary Percussion technology. Years in development and field tested on five continents by a dedicated, global team of experts in their field and the support and input by some of the leading process control instrumentation companies.

Our first products allow process manufacturers to avoid using nuclear radiation and invasive methods to make online density measurements. These and future products will allow process manufacturers to further optimize their operations by being able to make other high precision, high accuracy critical measurements automatically, online and in real-time.



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Useful Features

- Analog, digital and relay outputs
- Fail safe functionality
- Self-guided User Interface
- Auto Tuning
- Multiple calibration methods

Real-time process measurement ◀

Non-invasive ◀

No nuclear radiation ◀

Application Guide

Material Being Measured	Process Conditions	Process Pipe Limitations
Only for: Slurries/loose solids/liquids	Process pressure Any	Pipe wall thickness No practical limit
Types of Measurements Density, % solids	Flow rate No practical limit	Pipe Size: 3 inches plus
Process temperature: Up to 250° C	Ambient temperature -40° C to +60° C	Pipe Wall Material: Any
Particle size: No practical limits	System vibration: Accommodated	Liners All are OK

Applications

- Precious metal and mineral processing/beneficiation
- Specialty Chemicals
- Pulp & Paper
- Energy
 - Fracking
 - Coal-fired power plants
- Dredging