

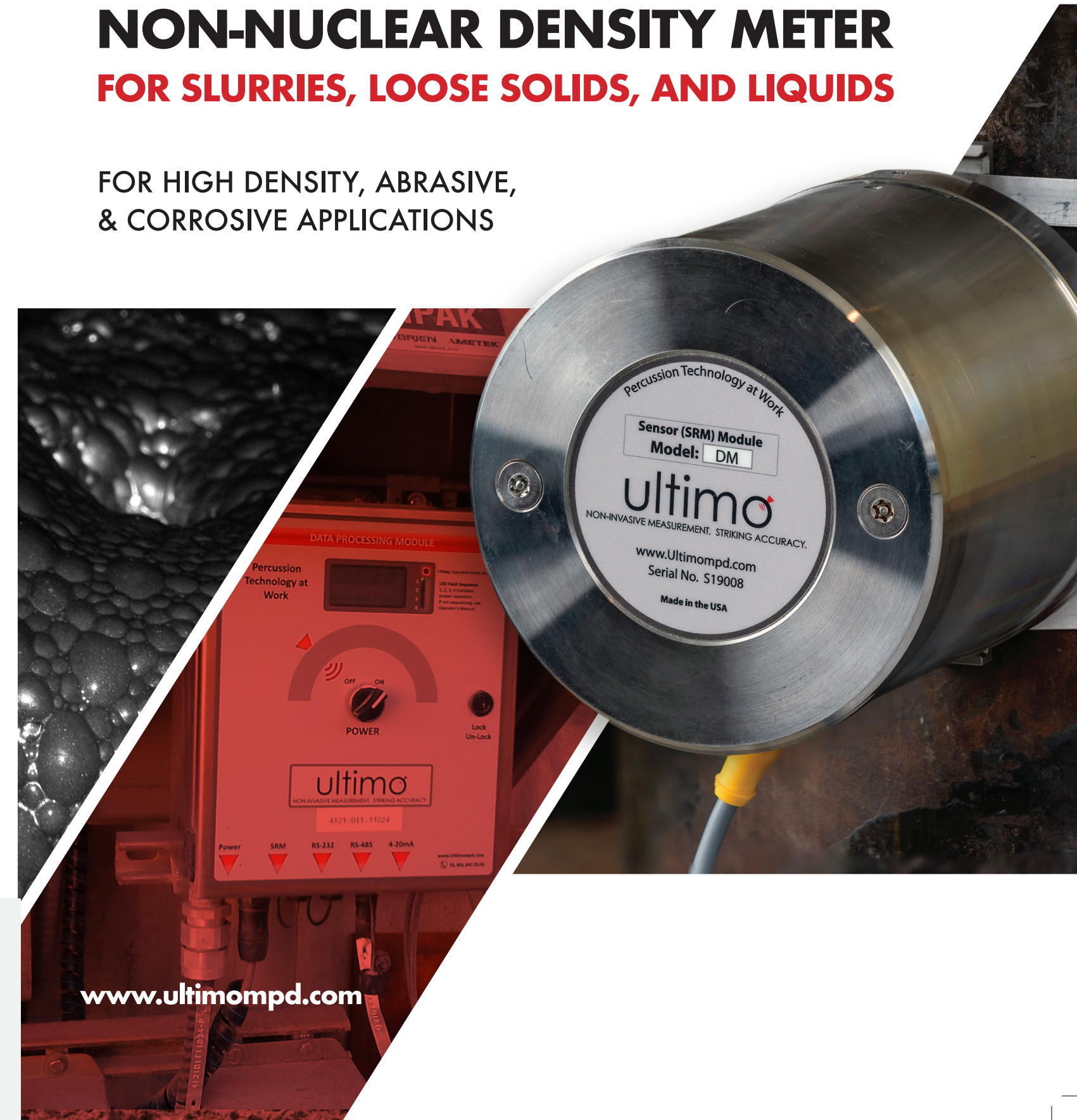
Technical Data & Specifications

Transmitter	
Communication/ Output	4 - 20 mA Current Loop, Modbus RTU based on RS485, RS485, RS232, 20A Relay Contact, SPDT @ 110/220 VAC
Accuracy	1% FS or better
Precision	1% or better
Measurement Range (S.g.)	from 0.001 to 3.5
Display	Local on transmitter and at DCS
Supply Voltage	120/240 VAC
Data Update Rate	5 s
Sensor	
Cable Length	Up to 30m
Environmental Protection	NEMA 4X
Pipe Specifications	
Size	3"
Material/ Orientation	Any
Operating Conditions	
Maximum Process Temperature	250° C

ultimo®

NON-NUCLEAR DENSITY METER FOR SLURRIES, LOOSE SOLIDS, AND LIQUIDS

FOR HIGH DENSITY, ABRASIVE,
& CORROSIVE APPLICATIONS



ultimo®

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How the Ultimo Density Meter works

Ultimo's proprietary vibration-based (non-acoustic) Percussion Technology generates, acquires and analyzes oscillations at the pipe wall to determine the bulk density of the material inside.

The meter's self-learning software discriminates between valuable and ambient vibrations and automatically adjusts the energy of percussion to obtain the unique signature created by the vessel and the content material. Advanced algorithms instantaneously and in high resolution, analyze the vibration spectrum and provide high quality sensitivity and exceptional precision of measurement.

Benefits of Ultimo Percussion Technology

No Radiation

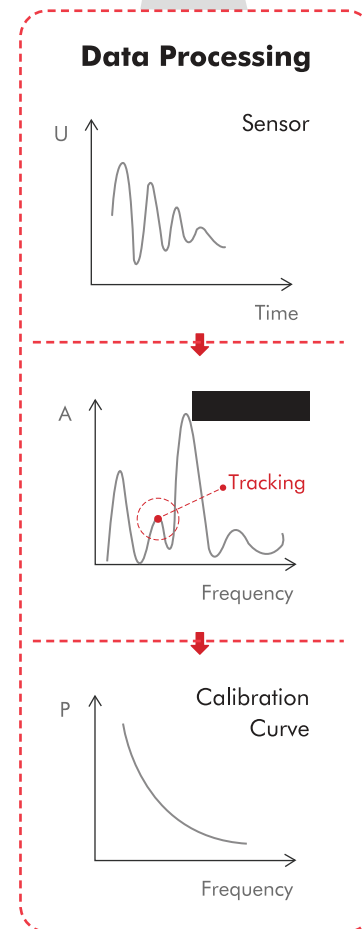
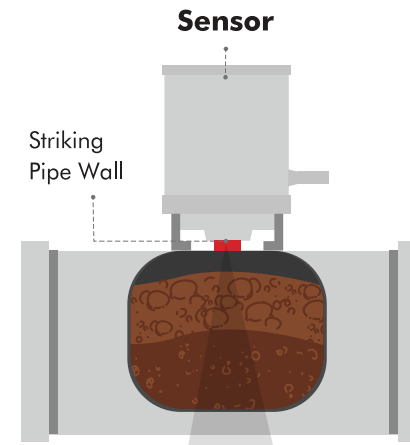
- Eliminates the administrative burden of nuclear
- Safer for the operator and the facility

Lowers cost without compromise

- Non-Invasive results in no clogging, leaks or pressure loss
- Installs on any standard size metal or plastic pipes
- No routine maintenance needed
- Installs in minutes without process interruption

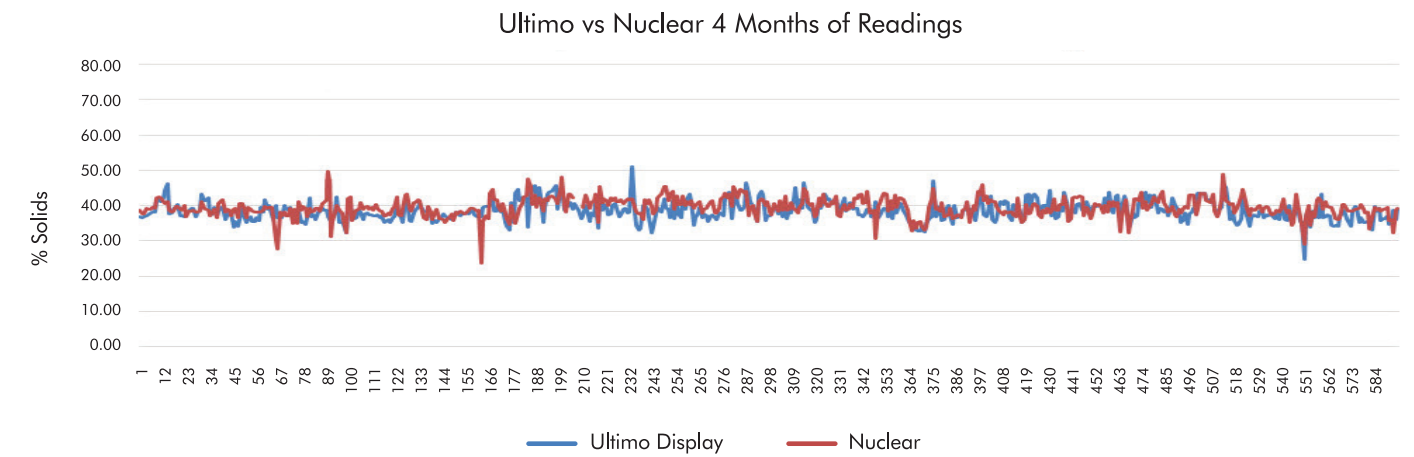
Reliable 24/7 Real-Time Process Measurement

- Reads density, trends or deviation
- Accurate and repeatable across all flow rates & density ranges
- Not limited by process pressure
- Expandable valuable points of measurement
- Serial digital, analog, and relay outputs



Data Processing Module

A Cost Effective, High Performance Alternative to Nuclear Densitometers



The Ultimo Density Meter is ideally suited for those applications where nuclear has, until now, been the reluctantly used and only non-invasive option. Year in development and field tested on five continents, Ultimo Percussion technology is quickly becoming the method of choice for abrasive, caustic and high solids content material and where the regulatory environment over nuclear is burdensome. In addition to superior measurement accuracy, 100% uptime and unmatched stability, the Ultimo Non-invasive Density Meter will also allow a facility to significantly reduce overhead spending year after year.

