Measurement Solutions

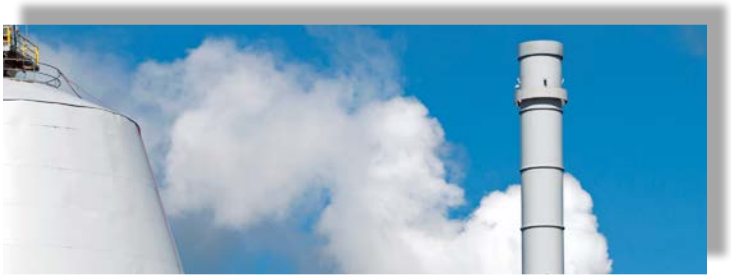
FOR THE PULP & PAPER INDUSTRY

- **Solutions for an Array of Level, Pressure, and Position Applications throughout the Pulp & Paper Making Process**

AMETEK®
SENSORS, TEST & CALIBRATION

From Pulp to Paper

Pulp and paper applications create a notoriously harsh, high moisture and chemical-laden environment; coupled with extreme vibration in many of the processes. This worldwide industry process is critical in keeping up with the global demand for paper products, which is approaching 500 million tons annually. From high speed position measurement to pressure and level applications, AMETEK Sensors, Test and Calibration has been serving this industry with the highest quality products and service for over 30 years.



We thank you for considering AMETEK STC products, and we appreciate the opportunity to provide you with the very best in measurement solutions. We are committed to providing you with:

- Best level, pressure and position measurement expertise in the industry
- Best value in the most state of the art instrumentation
- Best customer support and service
- Widest breadth of technologies
- Highest possible product quality
- Best in class products

AMETEK Sensors, Test and Calibration is known worldwide as a premiere manufacturer of high quality instrumentation. We have earned our reputation as a world leader by providing reliable and accurate solutions to the most demanding applications in virtually every industry. It is the purpose of AMETEK STC and our worldwide network of representatives and distributors, to provide the best possible owner experience from our products and solutions.

We pledge to provide you with a quality solution based on over 50 years of field experience that will be perfectly suited for your application.

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The Products You Need for Pulp and Paper Mills

Guided Wave and Open Air Radar

DR Series Models with 2-wire output and easy 3-step setup process ■ Class I, Div 1, Zone 0 installation ■ Special process separator for the most extreme conditions ■ Stable measurement through agitated surfaces, foam, and fine dust in the tank ■ Probe types and materials for all applications

Ultrasonic Level Detection

Patented SMART GAIN circuitry automatically ignores false echoes without adjustment ■ Output mode: Level, Distance, Flow, Volume ■ Superior accuracy – 0.15% of measuring range up to 30 ft ■ Class I, Div 1, Zone 0 installation for hazardous locations

Point Level Detection

ThePoint or IntelliPoint Models ■ Excellent in liquid, slurry or granular applications ■ Ignores coatings on the measurement probe ■ Switching relay or mA output ■ 2-wire or line powered ■ No calibration; easy to install

RF Admittance Level System

Universal IV Pro Series Level System ■ Easy one-time calibration ■ Low cost of ownership, no maintenance and no moving parts to wear out ■ Immune to tank obstructions ■ Supply voltage: 13-30 VDC, 2 wire loop powered ■ Output: 4-20 mAdc, HART

Hydrostatic Pressure

Level Mate III "all in one package" system ■ Low system pricing ■ Wide range of reliable stainless steel sensors ■ Setpoints and signal outputs for remote monitoring, recording and control ■ meter is microprocessor controlled and uses a 4-20 mA analog output

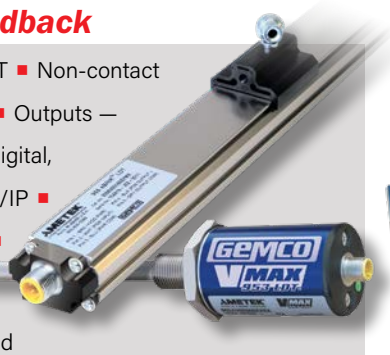
Magnetostrictive Sensing

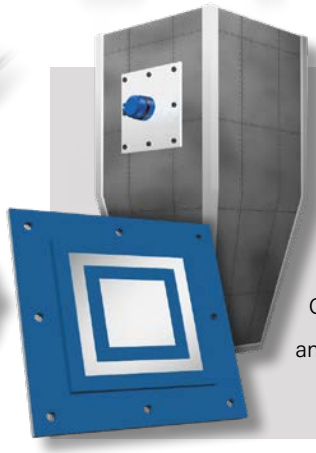
High accuracy TLS Series Level Transmitters ■ No calibration required ■ Accuracy to 0.01% ■ TLS comes with a Modbus RTU digital output or two-wire, intrinsically safe 4-20mA with HART signal output ■ Wide selection of floats and mounting accessories ■ Explosion proof

Linear Position Feedback

955 Brik LDT & 953 VMax LDT ■ Non-contact Magnetostrictive technology ■ Outputs — Analog (Voltage & Current), Digital, SSI, Quadrature and EtherNet/IP ■ Programmable Zero & Span ■

Variety of package styles to meet your mounting needs and environmental conditions

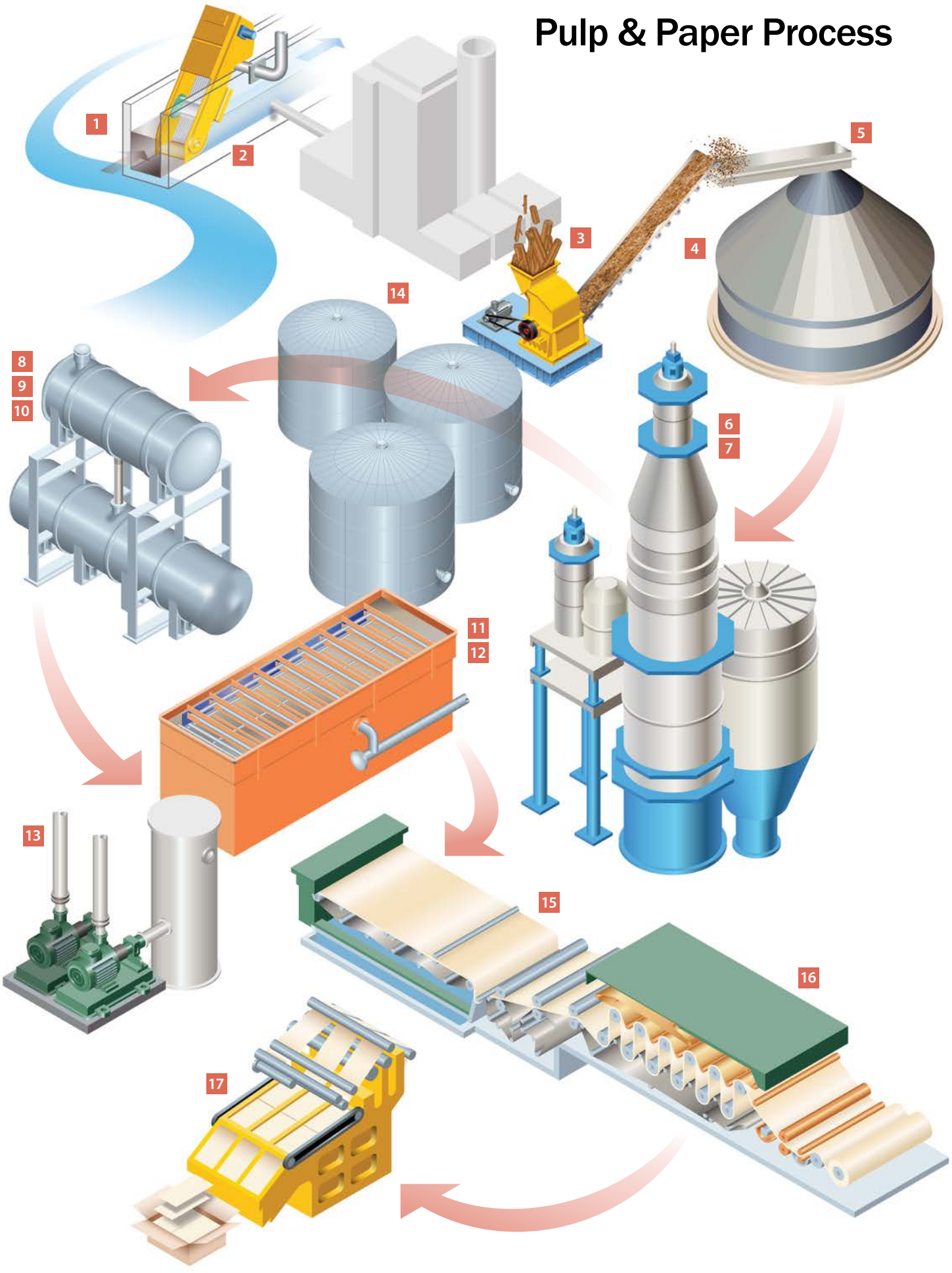




Plugged Chute Detector

Unique sensor design does not interfere with flow of material ■ Cote-Shield™ technology eliminates false alarms due to coatings ■ Electronics can be mounted remotely, away from high vibration ■ Great for feed bin, conveyor, storage tanks and delivery chute applications

Pulp & Paper Process



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	APPLICATION	MEASUREMENT	AMETEK SOLUTION
	Water Source and Bar Screens		
1	Intake or Well	Continuous Level	USonic Ultrasonic Level Transmitter
2	Screen Operation	Differential Measurement	USonic-R (with dual sensors) Ultrasonic Level Transmitter
	Wood Chip Bins, Chip Silos, and Chip Chutes		
3	Wood Chip Bin	Admittance Level	The Point & IntelliPoint RF Admittance Level Switches
4	Wood Chip Silo	Continuous Chip Silo Level	DR6500 Non-Contact 2-Wire Radar
5	Wood Chip Chute	Plug Detection	Plugged Chute Detector
	Pulp Digester		
6	Digester Components	Continuous Level — Radar	DR7400 Non-Contact Radar, DR7100 & Impulse TDR
7	Digester Components	Point Level — RF Admittance	IntelliPoint Level Switch
	Turpentine Recovery — Decanter/or Separator and Storage Tank		
8	Decanter and Separator	Total Level	DR7400 Non-Contact Radar, DR7100 & Impulse TDR
9	Decanter and Separator	Turpentine/Water Interface Level & Total Level	TLS Magnetostrictive Level Transmitters
10	Decanter and Separator	Overfill Protection	The Point & IntelliPoint RF Admittance Level Switches
	Mixing Chest and Machine Chest		
11	Pulp Level	On-Off Control	The Point & IntelliPoint RF Admittance Level Switches
12	Pulp Level	Continuous Level — Radar	DR2000, DR7100, & Impulse Guided Wave Radar
	MC (Medium Consistency) Pump Standpipes		
13	Pulp Level in Standpipe	Level — RF Admittance	Universal IV RF Admittance Level Transmitter
	Mill Water Storage		
14	Process Water Storage	Water Level	Level Mate III Hydrostatic Level Measurement System
	Paper, Drying, and Packaging Machines		
15	Paper Former and Press	Linear Position	955 eBrik II & 953 VMax Linear Displacement Transducers
16	Paper Dryer	Linear Position	955 eBrik II & 953 VMax Linear Displacement Transducers
17	Paper Packager	Linear Position	955 eBrik II & 953 VMax Linear Displacement Transducers

DREXELBROOK®

USG® U.S. Gauge

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