



# Measurement Solutions

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FOR THE PULP & PAPER INDUSTRY

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

**AMETEK**<sup>®</sup>  
SENSORS, TEST & CALIBRATION

[www.mfcp.com](http://www.mfcp.com)

# From Pulp to Paper

**P**ulp 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.

# 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 mA<sub>dc</sub>, 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

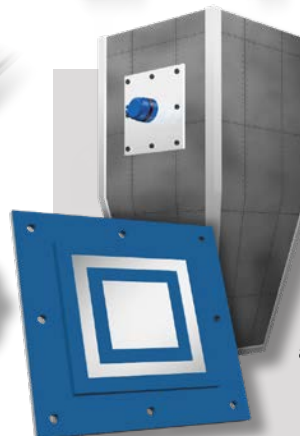
955 Brik LDT & 953 VMax LDT ■ Non-contact Magnetostrictive technology ■ Outputs — Analog (Voltage & Current), Digital, SSI, Quadrature and EtherNet/IP ■ Programmable Zero & Span ■

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

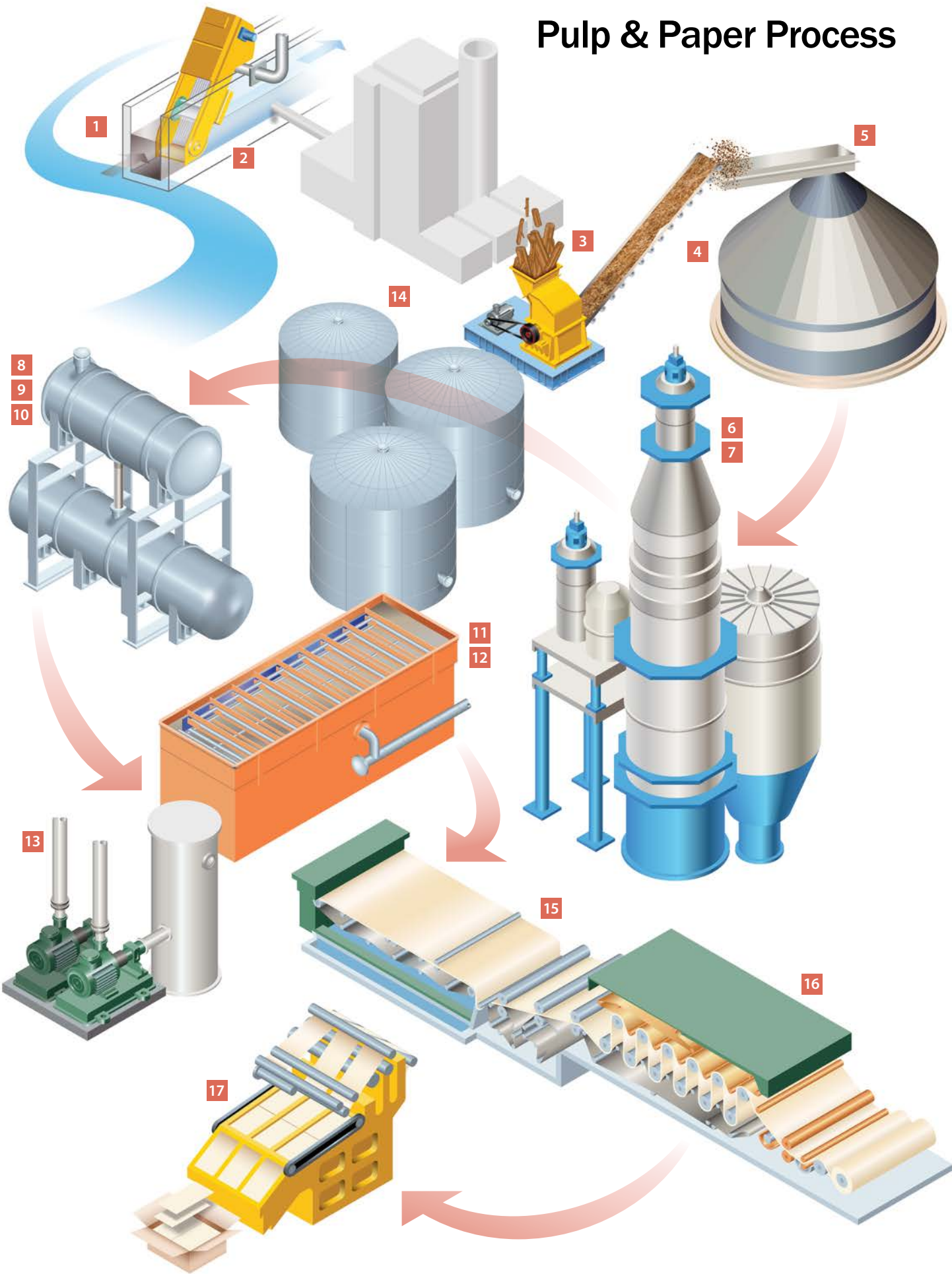


## Plugged Chute Detector

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





|   | APPLICATION             | MEASUREMENT                                    | AMETEK SOLUTION   |
|---|-------------------------|--|---|
| <b>Water Source and Bar Screens</b>                                 |                         |  |   |
| 1   | Intake or Well          | Continuous Level                               | USonic Ultrasonic Level Transmitter                       |
| 2   | Screen Operation        | Differential Measurement                       | USonic-R (with dual sensors) Ultrasonic Level Transmitter |
| <b>Wood Chip Bins, Chip Silos, and Chip Chutes</b>                  |                         |  |   |
| 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                                    |
| <b>Pulp Digester</b>  |                         |  |   |
| 6   | Digester Components     | Continuous Level – Radar                       | DR7400 Non-Contact Radar, DR7100 & Impulse TDR            |
| 7   | Digester Components     | Point Level – RF Admittance                    | IntelliPoint Level Switch                                 |
| <b>Turpentine Recovery — Decanter/or Separator and Storage Tank</b> |                         |  |   |
| 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  | Overflow Protection                            | The Point & IntelliPoint RF Admittance Level Switches     |
| <b>Mixing Chest and Machine Chest</b>                               |                         |  |   |
| 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               |
| <b>MC (Medium Consistency) Pump Standpipes</b>                      |                         |  |   |
| 13  | Pulp Level in Standpipe | Level – RF Admittance                          | Universal IV RF Admittance Level Transmitter              |
| <b>Mill Water Storage</b>   |                         |  |   |
| 14  | Process Water Storage   | Water Level                                    | Level Mate III Hydrostatic Level Measurement System       |
| <b>Paper, Drying, and Packaging Machines</b>                        |                         |  |   |
| 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   |



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