

Measurement Solutions

FOR THE WATER AND WASTEWATER INDUSTRIES

- **Level**
- **Open Channel Flow**
- **Pressure**
- **Linear Feedback**

The Products You Need for Water/Wastewater Industry

Model 575 and 575P Submersible Level Transmitters

- Class I, Div 1 Hazardous Approvals
- Standard or flush diaphragms for easy of cleaning
- Measurement ranges up to 690' of water
- Protected flush option available with Hastelloy® C diagram for sewage applications
- Handles liquids and sludge slurries
- Submersible or externally mounted models

APPLICATIONS: Chemical Mixing Tanks, Liquid Chemical Storage, Inlet pumping station, dissolved air flotation, Chemical treatment



LevelMate III Level Measurement System

- Sensor and Meter system combined
- Transmits analog signal for pump control
- Compatible with any PMT sensor, including Intrinsically Safe transmitters
- ModBus® RTU communication protocol standard
- NEMA 4X enclosure
- Pre-programmed at the factory for drop in installation

APPLICATIONS: Well water monitoring, lift stations



Model 675 Shark Cage Submersible Level Transmitters

- Class I, Div 1 Hazardous Approvals
- Heavy duty cage assembly to stay at bottom of wet well
- 316 SST construction for durability
- 3.5" flush diaphragm to prevent clogging or sewage buildup on sensor
- Measurement ranges up to 690' of water
- Excellent with sludge slurries

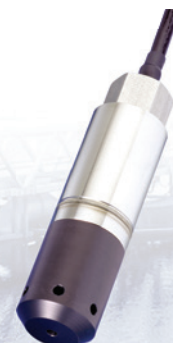
APPLICATIONS: Pump lift stations, sludge level measurement



Model SDT and 375 Submersible Level Transmitters

- Low cost
- Measuring range from 0-2.3 feet to 0-690 feet of water
- 316 SST construction for durability
- Non-clogging, removable snub nose
- Drop in installation
- Self-venting cable on SDT
- 375 cable has vent tube and potted electronics

APPLICATIONS: Clean water applications



Model SST Slimline Submersible Transmitter

- 0.69 inch diameter for small bore systems
- Measuring range is up to 345 feet of water
- Light weight (8 oz. without cable) for deep wells
- 2 wire 4-20 mA output
- Potted for moisture protection
- Removable snub nose for easy cleaning

APPLICATIONS: Pump control or other continuous level applications for small bore systems or deep wells



LMA Lightning Protection

- Protects LevelMate III and submersible transmitters from lightning and secondary surges
- Fast, nanosecond, bipolar response time
- AC or DC protection available
- Compact size

APPLICATIONS: Use with any of the submersible transmitters



The Products You Need for Water/Wastewater Industry

USonic and USonic R Ultrasonic Level Transmitter

- Smart Gain circuitry ignores false echoes from internal tank obstructions
- Superior accuracy – up to 0.15% of range
- 2 Wire HART intrinsically safe or explosion proof models
- Automatic pipe software adjusts for stilling wells and nozzles

APPLICATIONS: Open Channel Flow, Liquid Storage up to 30' Chemical Mixing Tanks



Model 1981 Gauge

- 4-1/2" chemical resistant PET case
- 316L stainless steel socket and seamless bourdon tube
- Pressure ranges from Vacuum to 11500 psi
- Available dry or liquid filled
- Optional high visibility yellow dial and red pointer

APPLICATIONS: Line pressure at pump control



DR5200, DRx400 Series and DRx500 Series Radar Syatems

- 10GHz, 24GHz, & 80GHz FMCW Radar
- 2-wire intrinsically safe design w/HART ensures false echo rejection, even with agitators
- Measurement range up to 328 ft.
- Handles liquids, slurries and solids

APPLICATIONS: Chemical Mixing Tanks, Liquids and Dry Chemical Storage, Sludge Holding Tanks, Digester, Open Channel Flow



Model SG Diaphragm Seal or XR-81

- Model 1981 Process Gauge used with SG or XR Diaphragm seal
- Gauge welded to seal to reduce leak paths
- Flushing connection option on seals
- Seals availability in many material
- Flanges and threaded process connections

APPLICATIONS: Line pressure at chemical storage

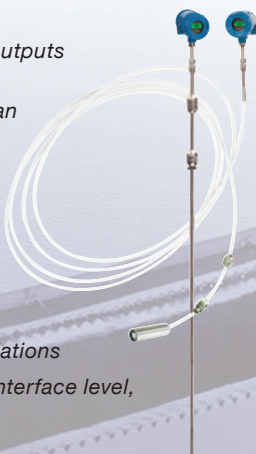


Total Tank Level System

Multi Variable Liquid Level Sensor

- Dual 4-20mA, Modbus RTU on HART outputs available
- High Accuracy: 0.01% of measured span - less than 2 mm absolute, over full measurement range (longest lengths)
- The stainless steel probe meets FM approvals for Class 1 Div. 1, Zone 0 Explosion Proof hazardous area installations
- The Kynar flexible probe meets FM approvals for Class 1 Div. 1, Zone 1 Intrinsically Safe hazardous area installations
- Multivariable capability for total level, interface level, temperature, system diagnostics
- No calibration; easy to install

APPLICATIONS: Total level, interface level, temperature (5 sensors over active range)

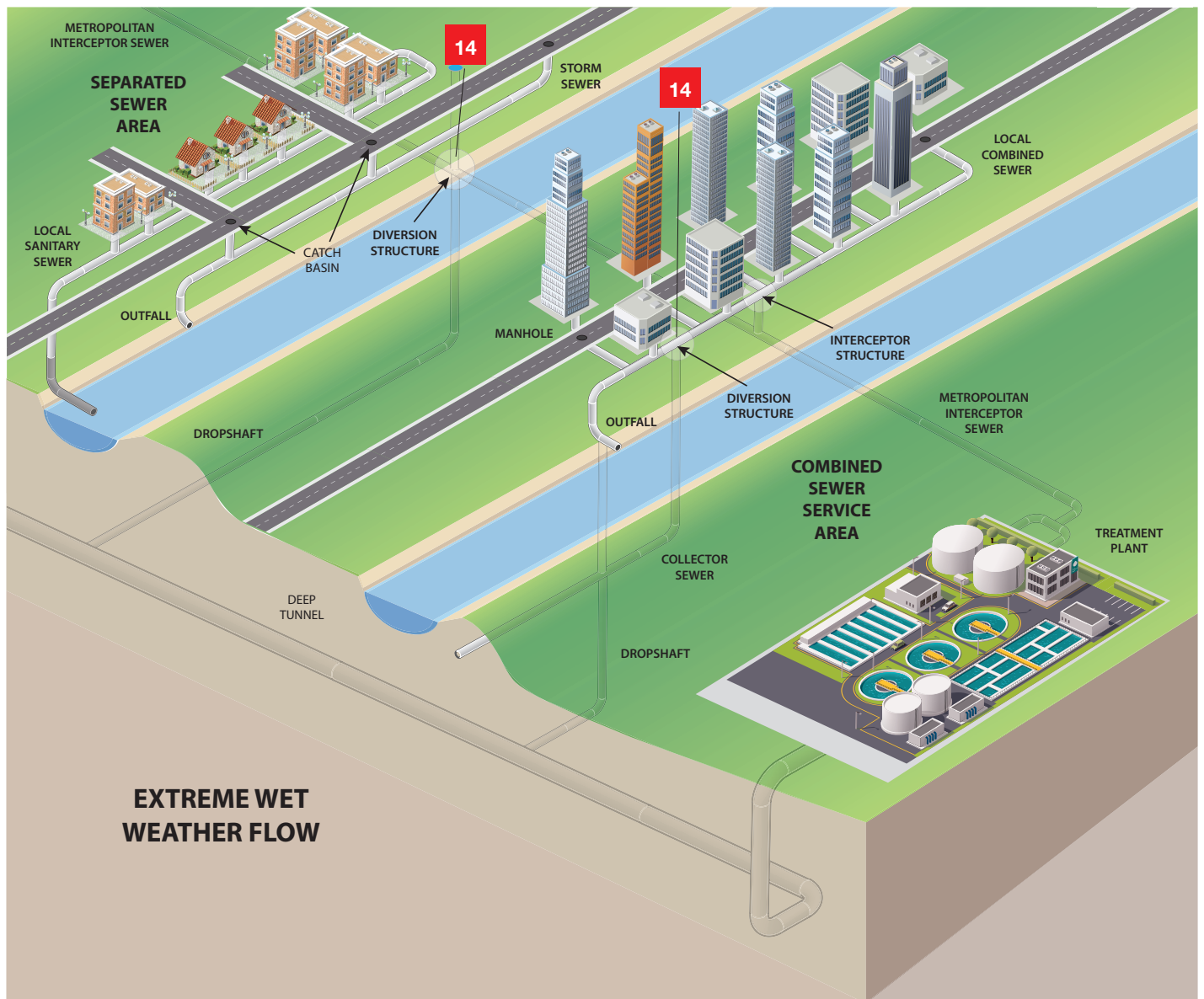


The Point Level Switch

- 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

APPLICATIONS: Chemical mixing and storage, chemical slurries, dewatering





The Products You Need for Water/Wastewater Industry

950IS Linear Transducer and Transmitter

- Intrinsically Safe Linear Displacement Transducer & Transmitter
- Hydraulic cylinder feedback
- Can be used in Hazardous environments when connected to an approved safety barrier
- UL & CSA listed for Class 1, Group C & D, Class II, Groups E, F, & G and Class III hazardous locations
- Measurement ranges up to 300"
- Analog - 0 to 10Vdc and 4-20mA outputs

APPLICATIONS: Hydraulic cylinder gate position feedback

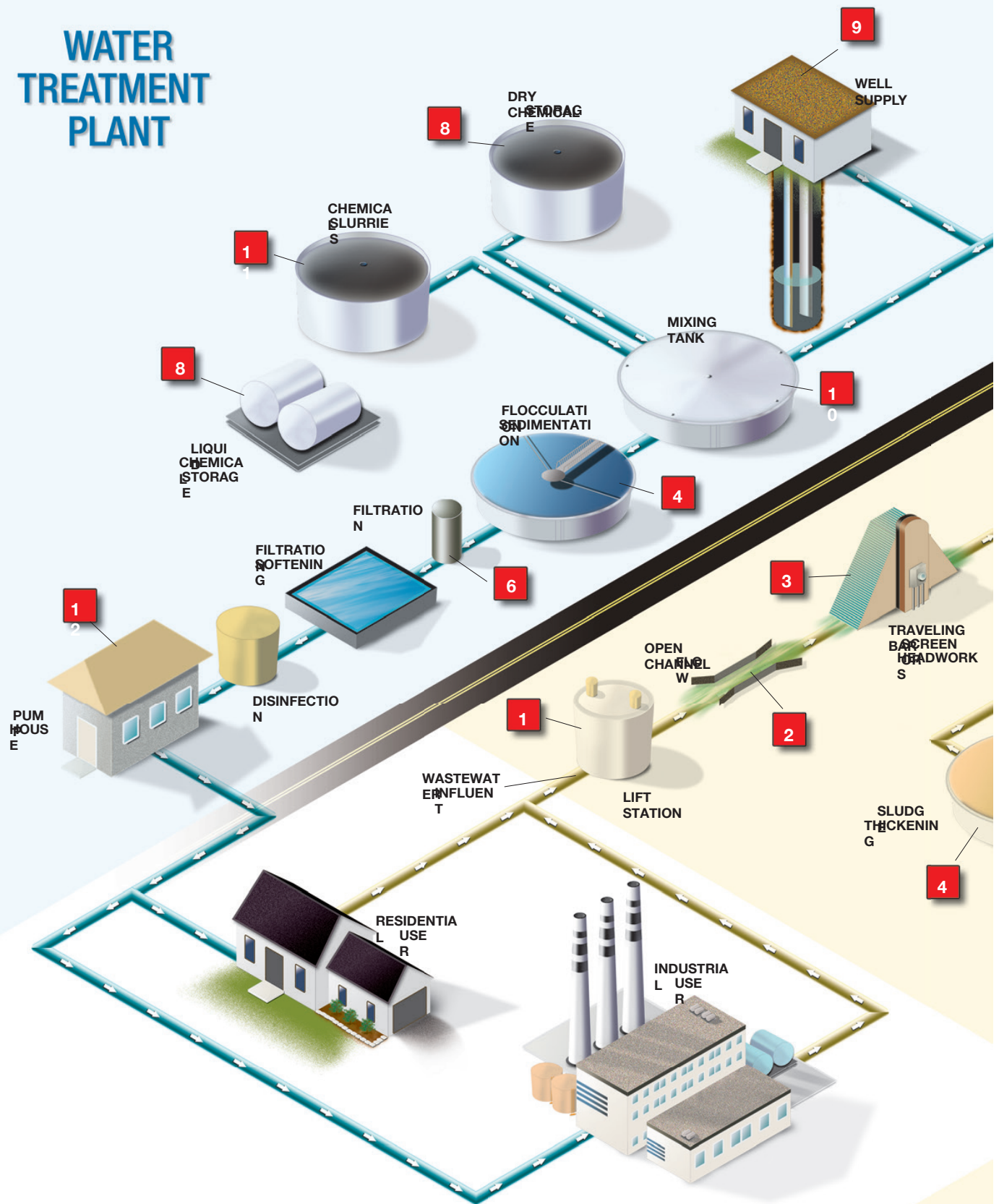


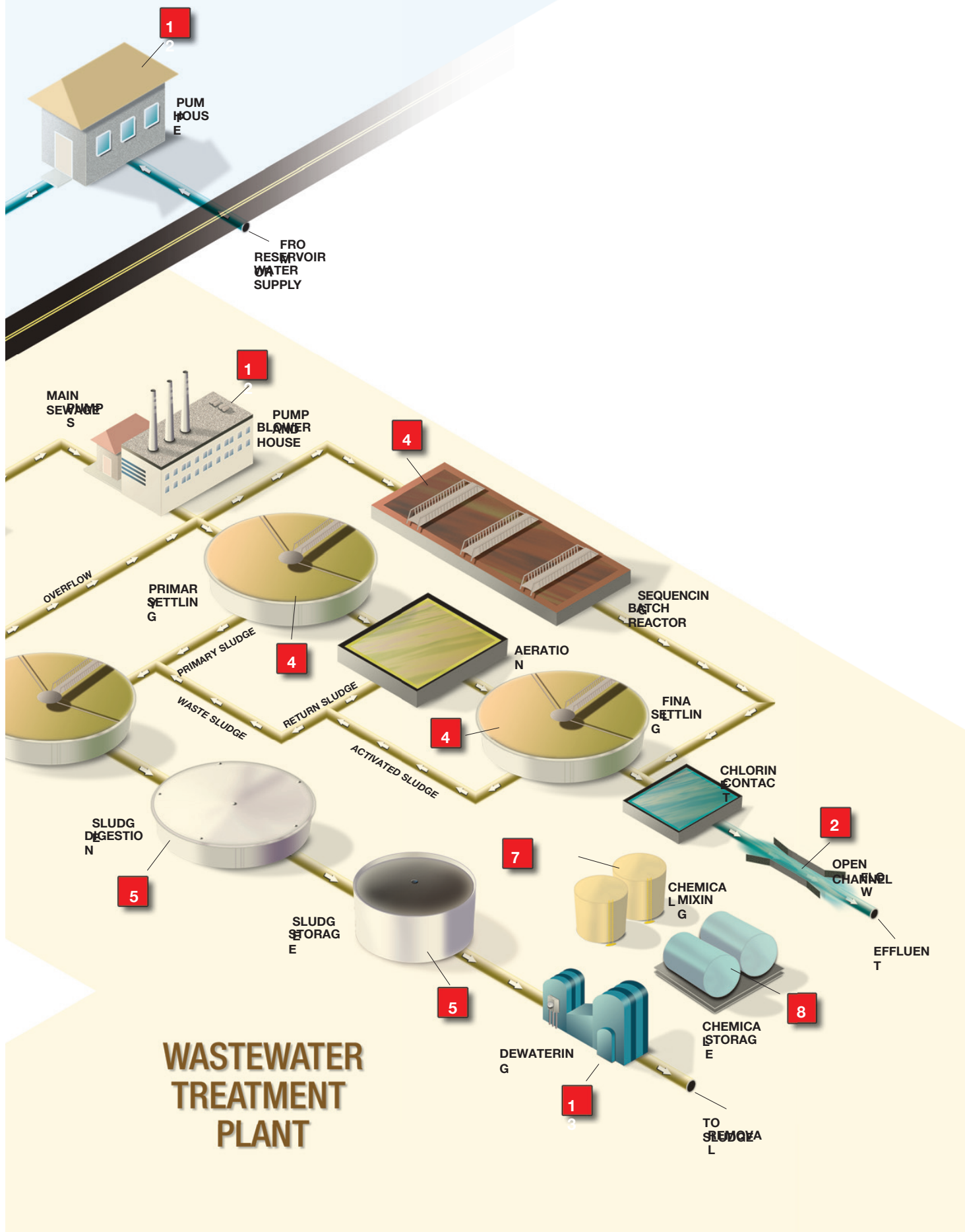
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Measurement Solutions - Water and Wastewater Industries

TAG ID	APPLICATION	MEASUREMENT	AMETEK SOLUTION
1	Lift Station or Wetwell	Continuous Level	Ultrasonic - USonic, USonic-R RF Admittance - Universal IV Submersible Level - Model 675, 575P, LevelMate III
2	Open Channel Flow Measurement	Continuous Flow	Ultrasonic - USonic, USonic-R Open Air Radar - DR5200
		Linear Feedback	Linear Displacement Transducer - 950IS
3	Travelling Bar Screen or Headworks	Continuous Level	Ultrasonic - USonic, USonic-R RF Admittance - Universal IV Submersible Level - Model 675, 575P
		Linear Feedback	Linear Displacement Transducer - 950IS
4	Settling Tank Level	Continuous Level	Ultrasonic - USonic, USonic-R Submersible Level - Model 675, 575P
5	Sludge Digestors/Sludge Storage	Continuous Level	RF Admittance - Universal IV Open Air Radar - DR5200, DRx400 and DRx500 Series Ultrasonic - USonic, USonic-R Submersible Level - Model 675, 575P
6	Water Filtration	Continuous Level	Ultrasonic - USonic, USonic-R RF Admittance - Universal IV Magntostrictive - Total Tank Level System
7	Chemical Mixing	Continuous Level	RF Admittance - Universal IV Guided Wave Radar - Impulse, DR2000, DR7100 Ultrasonic - USonic, USonic-R
		Point Level	RF Admittance - The Point Vibration (Tuning Fork) - TF 100 Series
		Line Pressure	Pressure - Model 1981 with SB/SG Diaphragm Seal, XR-81
	Dry Chemical Storage	Continuous Level	RF Admittance - Universal IV Guided Wave Radar - Impulse, DR2000, DR7100
8	Chemical Storage	Continuous Level	Ultrasonic - USonic, USonic-R Open Air Radar - DR5200, DRx400 and DRx500 Series RF Admittance - Universal IV Submersible Level - 675, 575, SDT, 375 Magnetostriuctive - Total Tank Level System Guided Wave Radar - Impulse, DR2000, DR7100
		Line Pressure	Pressure - Model 1981 with SB/SG Diaphragm Seal, XR-81
		Point Level	RF Admittance - The Point Conductive - 6012, 6013; Float - 7010, 7014 Ultrasonic Point - Verigap Vibration (Tuning Fork) - TF 100 Series
9	Water Wells	Continuous Level	Submersible Level - 575, LevelMate III RF Admittance - Universal IV, Checkwell
10	Mixing Tanks	Continuous Level	Ultrasonic - USonic, USonic-R Open Air Radar - DR5200, DRx400 and DRx500 Series RF Admittance - Universal IV
		Point Level	Vibration (Tuning Fork) - TF 100 Series Ultrasonic Point - Verigap RF Admittance - The Point
11	Chemical Slurries	Continuous Level	Ultrasonic - USonic, USonic-R Open Air Radar - DR5200, DRx400 and DRx500 Series RF Admittance - Universal IV Submersible Level - 575, 675, SDT, 375
		Point Level	Vibration (Tuning Fork) - TF 100 Series Ultrasonic Point - Verigap RF Admittance - The Point
12	Pump Control/Protection	Continuous Level	Submersible Level - LevelMate III, 575, SDT, SST Slimline
		Point Level	RF Admittance - ClearLine, Multi-Point
		Line Pressure	Pressure - Model 1981
13	Dewatering	Point Level	RF Admittance - The Point, Z-tron IV, Plugged Chute Detector Magnetostriuctive - Total Tank Level System
14	Diversion Structure	Linear Feedback	Linear Displacement Transducers - 950IS

WATER TREATMENT PLANT





We thank you for considering AMETEK STC's products, and we appreciate the opportunity to provide you with the very best in measurement solutions for the water and wastewater industries. Our Level, Open Channel Flow, Pressure and Linear Feedback products have met and exceeded the requirements of these challenging applications for over 50 years. As a solution provider, AMETEK can access and recommend the best product technology to solve your application issues. Please feel free to contact us via the emails and phone numbers listed below.

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SENSORS, TEST & CALIBRATION

DREXELBROOK[®]

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