



Measurement Solutions

FOR THE WATER AND WASTEWATER INDUSTRIES

- **Level**
- **Open Channel Flow**
- **Sludge Blanket Monitoring**
- **Pressure**
- **Linear Feedback**

AMETEK[®]

The Products You Need for Water/Wastewater Industry

Model 575 and 575P Submersible Level Transmitters

- Class I, Div 1 Approvals
- Standard or flush diaphragms for easy of cleaning
- Measurement ranges up to 690' of water
- Protected flush option available with Hastelloy® C diaphragm 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 Submersible Level Transmitters

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

APPLICATIONS: Lift stations



Model SDT 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

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



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



Model DR5200 Open Air Radar

- 10GHz, FMCW Radar
- Modular Housing Design, horizontal or vertical installations
- Measurement range up to 98'
- Handles liquids, slurries and solids
- 2 Wire Loop powered with HART

APPLICATIONS: Chemical Mixing Tanks, Liquid 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

- 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
- Modbus RTU digital output for total level, interface level, temperature, system diagnostics
- No calibration; easy to install

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

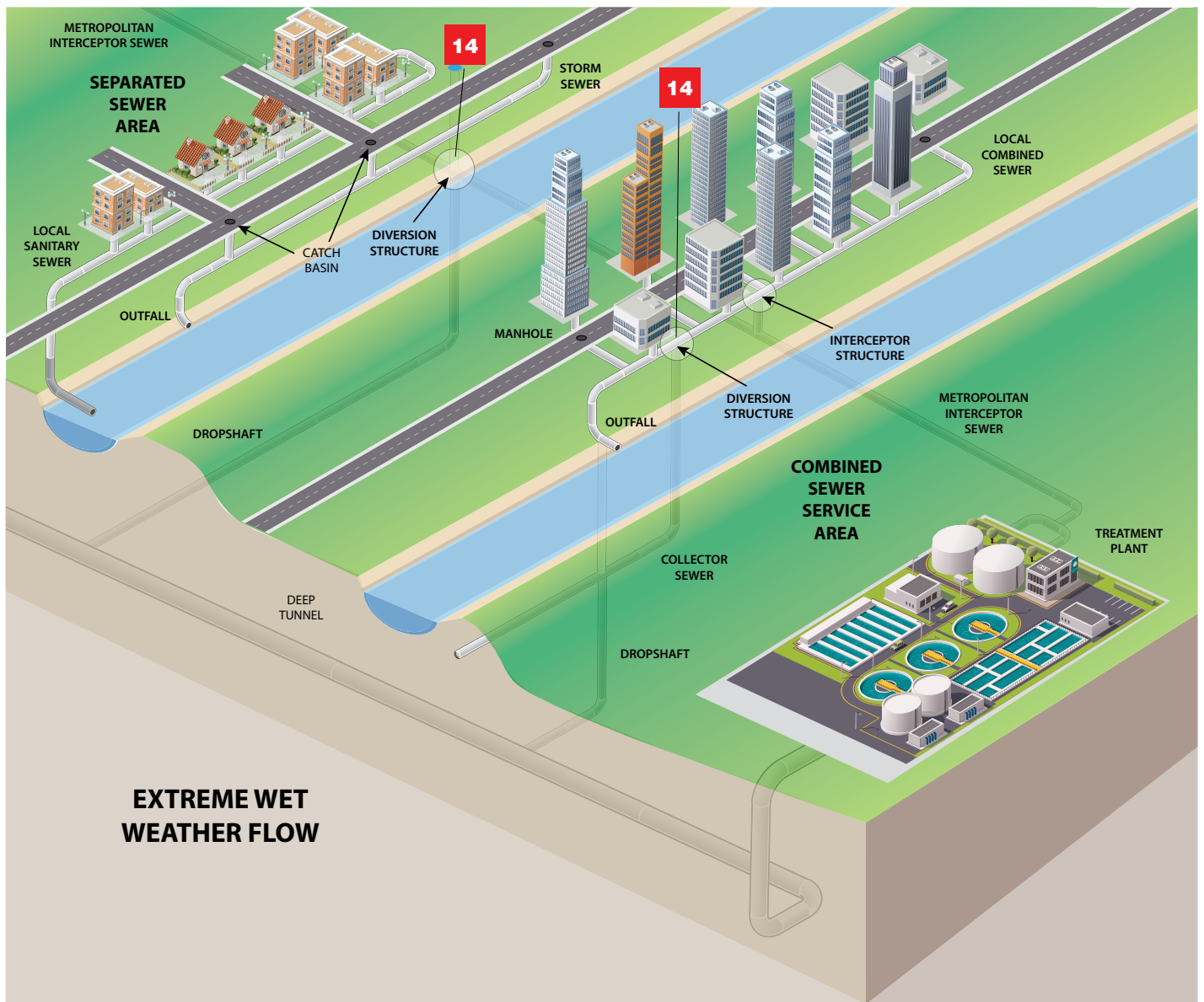


The Point Level Switch

- 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*

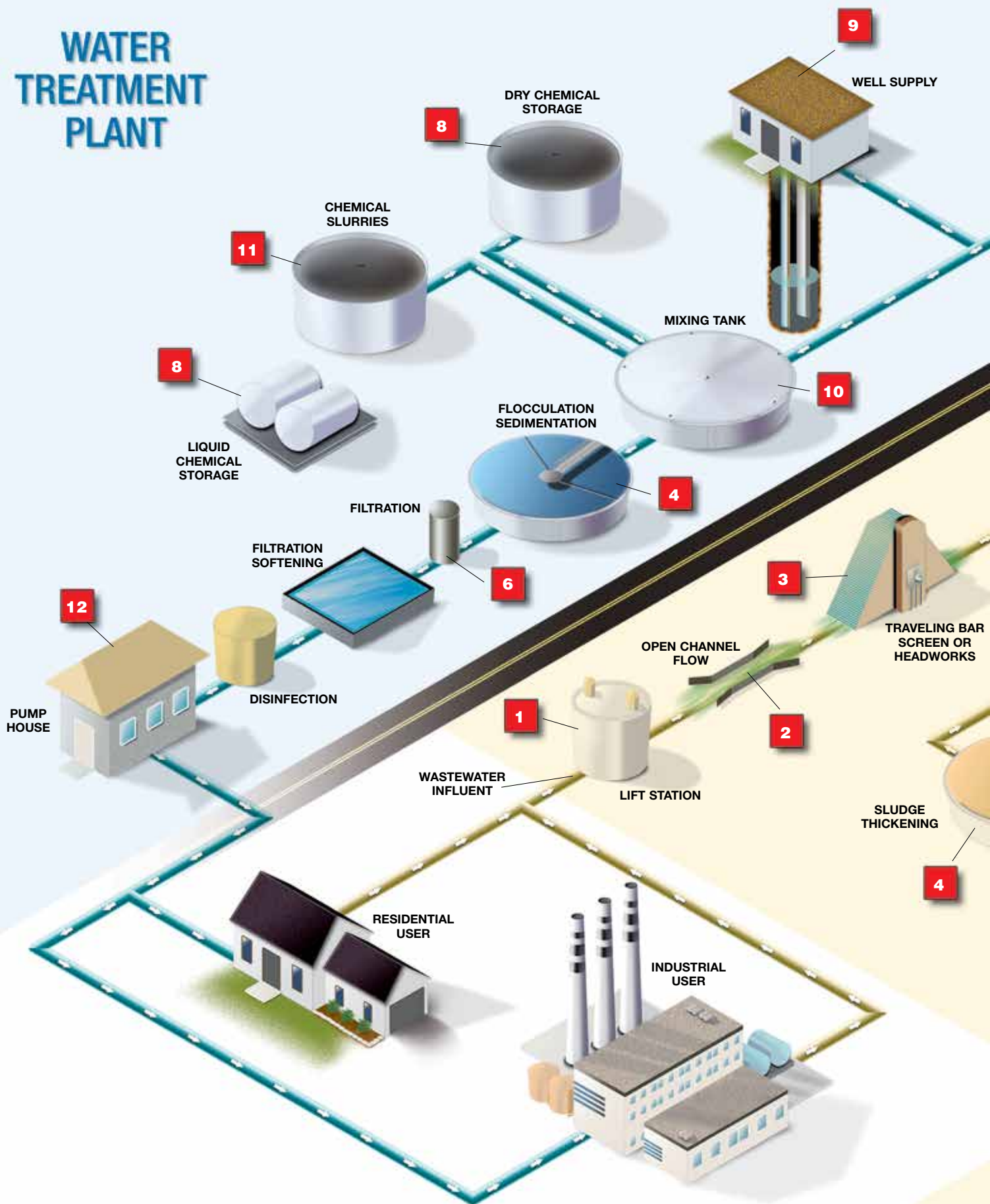
APPLICATIONS: *Hydraulic cylinder gate position feedback*

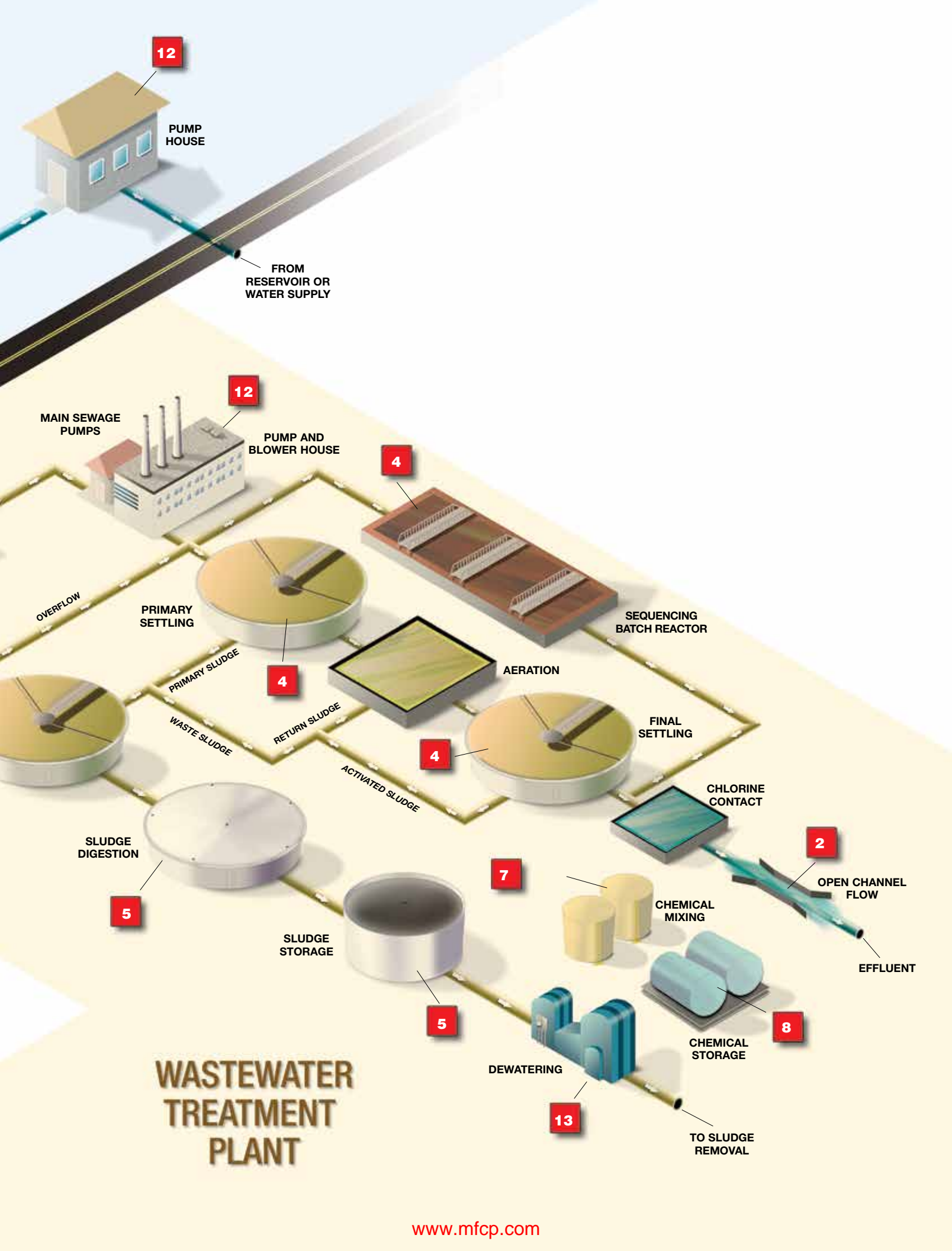


Measurement Solutions - Water and Wastewater Industries

TAG ID	APPLICATION	MEASUREMENT	AMETEK SOLUTION
1	Lift Station or Wetwell	Continuous Level	Ultrasonic - USonic, USonic-R RF Admittance - Universal IV, Universal II 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, Universal II 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, Universal II Open Air Radar - DR5200, DR6300, DR7000 Ultrasonic - USonic, USonic-R Submersible Level - Model 675, 575P
6	Water Filtration	Continuous Level	Ultrasonic - USonic, USonic-R RF Admittance - Universal IV, Universal II Magntostrictive - Total Tank Level System
7	Chemical Mixing	Continuous Level	RF Admittance - Universal IV, Universal II 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, Universal II Guided Wave Radar - Impulse, DR2000, DR7100
8	Chemical Storage	Continuous Level	Ultrasonic - USonic, USonic-R Open Air Radar - DR5200, DR6300, DR7000 RF Admittance - Universal IV, Universal II Submersible Level - 675, 575, SDT, 375 Magnetostrictive - 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, Universal II, Checkwell
10	Mixing Tanks	Continuous Level	Ultrasonic - USonic, USonic-R Open Air Radar - DR5200, DR6300, DR7000 RF Admittance - Universal IV, Universal II
		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, DR6300, DR7000 RF Admittance - Universal IV, Universal II 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 Magnetostrictive - Total Tank Level System
14	Diversion Structure	Linear Feedback	Linear Displacement Transducers - 950IS

WATER TREATMENT PLANT





WASTEWATER TREATMENT PLANT



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