

SUBMERSIBLE LEVEL • PRESSURE GAUGES • DIAPHRAGM SEALS



Pressure and Submersible Level Solutions

For the Water and Wastewater Industries

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 SDT or 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
- SDT has self-venting cable
- 375 has potted cable



APPLICATIONS:

Clean water applications

Model 656 Liquid Fillable Pressure Gauge

- 2-1/2 inch, 4 inch and 6 inch sizes
- 316L SST wetted parts
- SST case
- Factory or field fillable



APPLICATIONS:

Line pressure at chemical mixing or pump control

Model EW Diaphragm Seal

- Small profile
- Low cost
- Welded metal diaphragm
- Used for smaller gauges (2-1/2 inch to 4 inch)



APPLICATIONS:

Line pressure at chemical mixing or pump control

Model 1981 Process Gauge

- 4-1/2 inch chemical resistant PET solid front safety 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 SG Diaphragm Seal

- Welded metal diaphragm for improved safety
- Flushing connection option on seals
- Seals availability in many material
- Flanges and threaded process connections



APPLICATIONS:

Line pressure at chemical storage

Model 575 and 575P Submersible Level Transmitters

- Class I, Div 1 Hazardous Approvals
- Standard or flush diaphragms for ease 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

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 inch flush diaphragm to prevent clogging or sewage buildup on sensor
- Measurement ranges up to 690 feet of water
- Excellent with sludge slurries



APPLICATIONS:

Pump lift stations, sludge level measurement



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

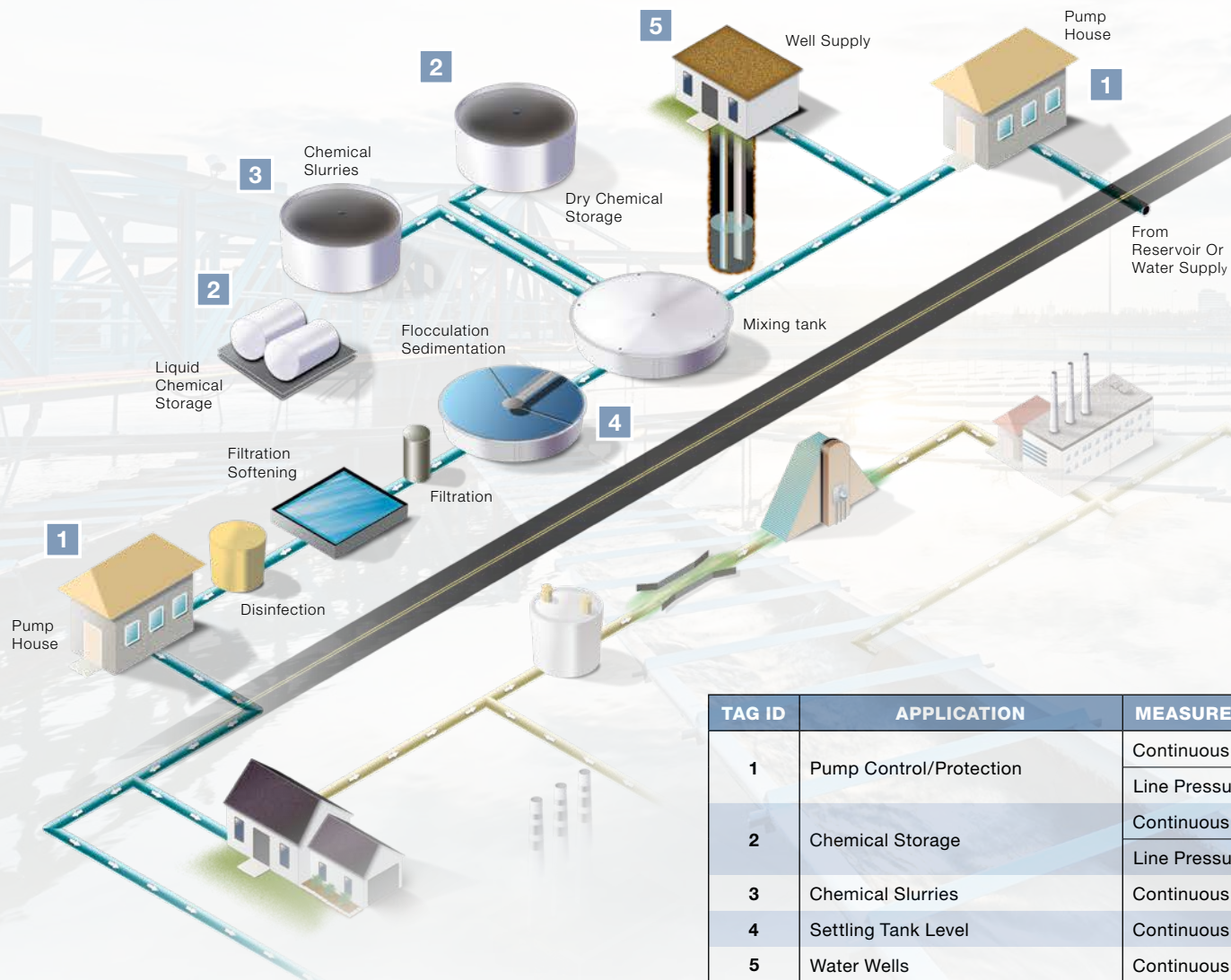
APPLICATIONS:

Use with any of the submersible transmitters



Submersible Level Transmitter Specifications

MODEL	PRESSURE RANGE	ACCURACY	APPROVALS	SENSING PORT	ELECTRICAL CONNECTION	WETTED PARTS
SDT	0 to 150 psi (0 to 345 ft water)	±(0.25% of FS) BFSL	None — General Industrial	Delrin Snubnose	Polyurethane, Polyolen, or Teflon Cable	316L Stainless Steel, Polyurethane (or Polyolefin or Teflon), Viton, Delrin
375	0 to 300 psi (0 to 690 ft water)	±(0.25% of FS) BFSL	None — General Industrial	Delrin or SST Snubnose, or Flush Mount	Polyurethane Cable Potted w/ Vent Tube	316L Stainless Steel, Polyurethane, Viton, Delrin
SST Slimline	0 to 150 psi (0 to 345 ft water)	±(0.25% of FS) BFSL	None — General Industrial	Delrin Snubnose w/ 0.69" Diameter	Polyurethane Cable Potted w/ Vent Tube	316L Stainless Steel, Polyurethane, Viton, Delrin
575 and 575 Protected Flush Cage	0 to 300 psi (0 to 690 ft water)	±(0.25% of FS) BFSL	Intrinsically Safe	Protected Flush Cage, Nylon or SST Snubnose, or Flush Mount	Teflon or Polyurethane Cable (opt. Potting and Vent Tube)	316L Stainless Steel, Polyurethane (or Teflon), Viton
675 Shark Cage	0 to 60 psi (0 to 138 ft water)	±(0.25% of FS) BFSL	Intrinsically Safe	3.5" Diaphragm Protected by 4.75" Cage	Polyurethane Cable Potted w/ Vent Tube	316L Stainless Steel, Polyurethane, Viton

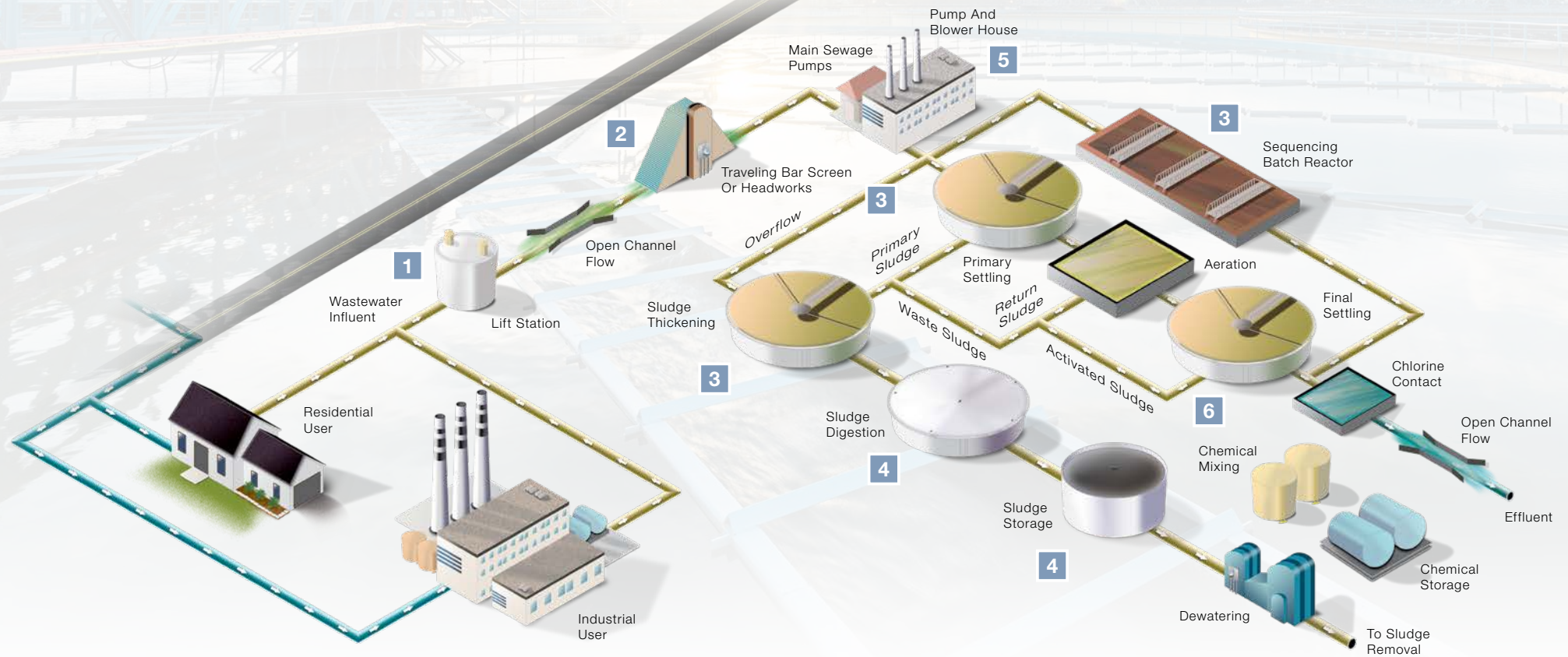


Water Treatment Plant

TAG ID	APPLICATION	MEASUREMENT	AMETEK SOLUTION
1	Pump Control/Protection	Continuous Level	Submersible Level - LevelMate III, 575, SDT, SST Slimline
		Line Pressure	Pressure - Model 1981
2	Chemical Storage	Continuous Level	Submersible Level - 675, 575, SDT, 375
		Line Pressure	Pressure - Model 1981 with SB/SG Diaphragm Seal, XR-81
3	Chemical Slurries	Continuous Level	Submersible Level - 575, 675, SDT, 375
4	Settling Tank Level	Continuous Level	Submersible Level - Model 675, 575P
5	Water Wells	Continuous Level	Submersible Level - 575, LevelMate III

TAG ID	APPLICATION	MEASUREMENT	AMETEK SOLUTION
1	Lift Station or Wetwell	Continuous Level	Submersible Level - Model 675, 575P, LevelMate III
2	Traveling Bar Screen or Headworks	Continuous Level	Submersible Level - Model 675, 575P
3	Settling Tank Level	Continuous Level	Submersible Level - Model 675, 575P
4	Sludge Digestors/Sludge Storage	Continuous Level	Submersible Level - Model 675, 575P
5	Pump Control/Protection	Continuous Level	Submersible Level - LevelMate III, 575, SDT, SST Slimline
		Line Pressure	Pressure - Model 1981
6	Chemical Mixing	Line Pressure	Pressure - Model 1981 with SB/SG Diaphragm Seal, XR-81

WasteWater Treatment Plant



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