Instrumentation and Control Products for Chemical Plants...

PITTSBURGH, PA
535 Rochester Road
Pittsburgh, PA 15237-1747
p (412) 348-3000
f (412) 366-1728

COLUMBUS, OH
2697 Sawbury Blvd
Columbus, OH 43235-4582
p (614) 889-2150
f (614) 889-6038

CLEVELAND, OH
2776 Berkshire Road
Cleveland Heights, OH 44106
p (440) 543-0300
f (440) 543-1230

PITTSBURGH, PA
535 Rochester Road
Pittsburgh, PA 15237-1747
p (412) 348-3000
f (412) 366-1728

COLUMBUS, OH
2697 Sawbury Blvd
Columbus, OH 43235-4582
p (614) 889-2150
f (614) 889-6038

CLEVELAND, OH
2776 Berkshire Road
Cleveland Heights, OH 44106
p (440) 543-0300
f (440) 543-1230

CINCINNATI, OH
7044 Moorfield Dr
Cincinnati, OH 45230
p 800-860-4499
f (412) 348-3042

CHARLESTON, WV
3501 MacCorkle Ave SE #143
Charleston, WV 25304
p (304) 342-0012
f (304) 342-0085

TOLEDO, OH
26953 Mingo Drive
Perrysburg, OH 43551
p (419) 874-1178
f (419) 874-5333

ORLANDO, FL
144 Harston Ct
Heathrow, FL 32746
p (407) 444-0334
f (407) 444-0335

TAMPA, FL
12321 Gilmerton Mist Ln
Riverview, FL 33579
p 800-860-4499
f (407) 444-0335

www.gilsoneng.com
1. Product Storage, Holding, Mixing and Day Tanks and Tank Farms

**Overfill prevention** – Thermo Scientific (formerly TN Technologies), Siemens-Milltronics

**Level gauging** – Thermo Scientific (formerly TN Technologies), Siemens-Milltronics

**Nitrogen blanketing** – Jordan Valve regulators, MSA Oxygen monitor

**Mixer speed/horsepower measurement** – AI-Tek & Turck Speed monitors, Moore Industries Power and current monitors

**Data acquisition systems** – Thermo Scientific (formerly Westronics) Paper and Paperless Recorders, Siemens-Moore Products Procidia controller

**Gas leak detection** – MSA Gas monitors

**Tank Heating** – Jordan Valve Temp regulators

2. Transfer Pipelines

**Flow measurement** – FCI thermal gas meters, Siemens Transmitters, Siemens Mag meters

**Flow verification** – FCI Thermal Mass Flow Switches, Siemens Mag meter

**Backflow prevention** – FCI Thermal Flow Switch, Jordan Valve

**Pressure reduction** – Jordan Valve

**PH/ORP/conductivity/DO measurement** – ECD

**Controls** – Siemens Moore Products 353 and Procidia controllers.

**Density/Specific Gravity** – Thermo Scientific (formerly TN Technologies) nuclear densitometers, Siemens Coriolis

**Pressure control** – Jordan Valve regulators, Siemens transmitters

3. Reactors

**Overfill prevention** – Siemens-Milltronics

**Level gauging** – Thermo Scientific (formerly TN Technologies), Siemens Milltronics

**Temperature measurement** – Moore Industries Transmitters, SSI T/C’s & RTD’s

**PH/ORP measurement** – ECD

**Batch interface detection** – Siemens-Milltronics, FCI, Sarasota, ECD

**Mixer speed/horsepower measurement** – AI-Tek & Turck Speed Monitors and Moore Industries Amp and Power Monitors

**Controls** – Siemens Moore Products

**Critical transmitters** – Siemens

**Gas leak detection** – MSA

**Pressure measurement** – Siemens/Moore, ITT Neo-Dyn Pressure Switches

4. Heat Exchangers

**Temperature control valves** – Jordan Valve Temperature Regulators
Pressure reduction – Jordan Valves, Siemens/Moore Products Transmitters and Controllers
Flow measurement – Siemens Mag meters, Siemens Moore Transmitters
Conductivity – ECD Conductivity meters
Flow alarms – FCI Flow switches, Moore Industries Alarms, Precision Digital Annunciators
Controls – Fenwal Temperature Controls, ITT Neo-Dyn, Moore Industries and Siemens Moore Products
Gas leak detection – MSA
Temperature measurement – Moore Industries Transmitters, SSI T/C’s & RTD’s

5. Distillation Columns
Bottoms level measurement – Siemens-Milltronics, FCI
Temperature profiling – Moore Industries, Westronics recorders
Density measurement – Thermo Scientific (formerly TN Technologies)
Column controls – Siemens Moore Products 353 and Procidia controllers level gauging, Siemens-Milltronics and Thermo Scientific (formerly TN Technologies)
Gas leak detection – MSA

6. Dryers
Air & Gas flow measurement - FCI, Turck and Siemens Moore Products
Temperature measurement - SSI T/C’s & RTD’s, Transmitter Moore Industries
Gas Detection Systems - MSA

7. Vapor Recovery, Flare Stacks/ Thermal Oxidizers
Oxygen & LEL Measurement systems – MSA
Flare Stack Flow Measurement – FCI Thermal Flow Meter
Combustion Air Flow Measurement - FCI, Siemens Moore Products
Combustion Controls – Siemens Moore Products
Environmental Analyzers for Toxic & Pollutant Gases – MSA

8. Scrubbers
Acid/Caustic Tank Levels – Thermo Scientific (formerly TN Technologies), Siemens-Milltronics
Acid/Caustic/Water Flow Meters – Jordan Valve, Siemens
pH/Conductivity Meters for concentration control - ECD
Mixer speed/horsepower measurement – Moore Industries, AI-Tek & Turck Speed Monitors
Level indication – Siemens-Milltronics, Thermo Scientific (formerly Westronics), Precision Digital

9. Pumps
Protection - FCI, Siemens-Milltronics, Turck, ITT Neo-Dyn
Control – Moore Industries, Siemens/Moore, Precision Digital
Speed & horsepower monitoring – AI-Tek, Moore Industries, Turck
Pump Bypass – Jordan Back Pressure regulators

10. Utilities:
Boilers
Control Systems – Siemens Moore Products
Pressure Measurement & Alarming – Siemens/Moore, ITT Neo-Dyn
Drum & Feedwater Heater Levels - Siemens-Milltronics, Jordan feedwater valves
Air & Fuel Flowmeters - FCI, Siemens/Moore, Jordan Valve
Oxygen & LEL detection – MSA
Damper Drives – Trivaco
Chillers
Controls – Siemens/Moore
Freon & Refrigerant Gas Detection – MSA
Damper Drives – Trivaco
Compressors
Overspeed & Underspeed Alarms – Turck, AI-Tek
RPM Measurement – Turck, AI-Tek
Flow Measurement and Alarms - FCI, Turck
Bearing & Oil Temperature Monitors – ITT Neo-Dyn, Moore Industries

Gas Lines
Flow Measurement - FCI, Jordan Valve, Siemens Moore
Leak Detection - MSA
Pressure Reduction – Jordan Valve
Pressure Reduction and Control – Jordan Valve, Siemens Moore
Power Monitors - Moore Industries

11. Valves
Positioners (Smart and Traditional) – Siemens Moore
Regulators – Jordan Valve
Control - Jordan Valve
Monitors – Jordan Valve
Instrument – Hex

12. Safety Interlocks
Level - Siemens-Milltronics
Pressure – ITT Neo-Dyn, Siemens Moore
Flow - FCI, Siemens Moore
Temperature – Moore Industries
Signal Current and Voltage - Moore Industries

13. Health, Safety and Environmental
Confined Space Monitors and portable instruments – MSA
Ambient Monitors for Toxic Gases - MSA
pH & DO measurement of effluent water systems - ECD
Effluent flowmeters – Siemens-Milltronics
Data Collection Systems – Thermo Scientific (formerly Westronics), Moore Industries, Siemens/Moore
14. Panel Instruments and Controls
Digital Displays – Precision Digital, Moore Industries
Recorders – Thermo Scientific (formerly TN Technologies), Siemens Moore
Loop Controllers – Siemens/Moore
Process Indication – Precision Digital
Alarms and Annunciation - Moore Industries, Precision Digital

15. Analyzers
Process Gas Analyzers - MSA
pH/Conductivity/ORP/DO/specific ion analyzers - ECD
Density – Thermo Scientific (formerly TN Technologies) and Sarasota

16. Signal Transmission
Wireless Telemetry - Elpro
Multiplexers – Moore Industries & Thermo Scientific (formerly Westronics)

17. Pilot Plants/Small Scale Production Units
Level Measurement – Thermo Scientific (formerly TN Technologies), Siemens-Milltronics
Pressure Measurement – Siemens-Moore and ITT Neo-Dyn
Temperature Measurement – Moore Industries, Smart Sensors
Flow Measurement – FCI Thermal Massmeters, Universal Flow & Siemens Mag meters
Valving - Jordan Valve, Hex Valve
Control Systems – Siemens/Moore