
GILSON ENGINEERING CHEMICAL INDUSTRY GUIDE



Instrumentation and Control Products for Chemical Plants...

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

Overflow 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

Overflow 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