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# GILSON ENGINEERING FOOD & BEVERAGE INDUSTRY GUIDE

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## Instrumentation and Control Products for the Food and Beverage Industry

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### **New Jersey**

p 800-860-4499

# Citrus



Fruit Receiving Bin Level: [Siemens LR100, Siemens LR500 Series and CLS200](#)

Fruit Processing Temperature: [Moore Industries RTI and Worm, Wika TG53](#)

Pressed Liquor Level & pH: [ECD T80/S80, Signet 2750/2724, HydroRanger](#)

Oil Separator Outlet Flow: [Siemens FS230, Signet 2536 and Signet 2552](#)

Sterilizer Flow: [Siemens 5100W and 1100, Signet 2552](#)

Blend Tank and Fog Filler Level: [Siemens LR250](#)

Aseptic Storage Level: [Siemens LR100, Siemens LR250 HEA](#)

Aseptic Storage Nitrogen Blanket: [Jordan Valve Mk 78/708/60](#)

NH3 Refrigeration/Various Gas Detection: [MSA Chillgard 5000, MSA X5000](#)

Feed Mill pH: [Signet 2750/2751/2724/2726, ECD T80/S80](#)

Molasses Level and Flow: [Siemens 5100W/1100/Siemens LT500](#)

[HydroRanger](#)

Concentrate Temperature and Level: [Siemens LR100 & LR250 HEA, Mii RTI](#)

CIP Flow and Tank Level: [Siemens 5100W, Siemens LT500 HydroRanger,](#)

[Signet 2552](#)

Concentrate, Evaporator and Feed Flows: [Siemens Mag5100W/1100](#)

Pasteurization: [Siemens P320/1100/LR250, Wika Pressure Gauges and PSD, Sanitary transmitters/Gauges](#)

Glycol Flow and Control Valve: [Jordan Mk 75/708, Siemens FS230](#)

Compressed Air Flow/Humidity: [FCI ST51/80, Siemens P320/FS230, Mii HTZ](#)

Cogen Steam Flow/Valve Positioners: [Siemens PS2/PS100, Comate VFM60](#)

Wastewater Plant Flows: [Siemens 5100W, Signet 2536/2551](#)

Effluent pH: [Signet 2750/2751/2724/2726, ECD T80/S80](#)

Chart Recorders: [Brainchild GR Series](#)

Linking Remote Areas to Plants: [Banner DX80/90, Elpro 915U, Signal Fire Ranger](#)

VFD's & Pump Alternating Control: [Precision Digital 765/6000, LSIS H100](#)

De-Aerator Tank Level: [Siemens P320/LG250, QTS Magnetrac](#)

Vacuum Breaker Valves: [Jordan Mk75/708](#)  
Safety/Alarm Trips: [Moore Industries SPA/STA](#)  
Rotation (Frequency) Monitors: [AI-Tek 2012 Sensor Catalog](#), [Mii FDY](#)  
Finished Juice Valves: [Steriflow Mk 978](#), [Mk 96](#) and [Mk 95](#)  
Brix & Density: [Ronan X96S](#), [Siemens FC500 coriolis](#)

## Sugar



Evaporator and Condensate Tanks: [Siemens LG 250/LR100](#)  
Condensate Water for Boilers: [Siemens FS230](#), [Turbines Inc HA](#), [Macnaught MX](#)  
Cane Juice Flows to Clarifiers: [Siemens 5100W/1100 magmeters](#), [Signet 2552](#)  
Calcium Oxide Flow (Lime or Milk): [Siemens 5100W/1100](#), [Signet 2552](#)  
Sugar Carbonation pH and ORP: [Signet 2750/2751/2724/2726](#), [ECD T80/S80](#)  
Raw Product Level: [Siemens LR100](#), [Siemens LR500 Series](#)  
Steam Flows and Control Valves: [Siemens P320](#), [Comate VFM 60](#), [Jordan Mk75](#)  
Molasses, Confectionary & Sugar Density: [Ronan X96S](#)  
Molasses, Confectionary & Sugar Valves: [Steriflow Mk 978](#), [Mk 96](#) & [Mk 95](#)  
Slicer Pressure and Flow: [Siemens P320/5100W](#), [Signet 2552](#), [Wika Press Gauges](#),  
[Sanitary transmitters/Gauges](#)  
Steam Valve Positioners: [Siemens PS2/PS100](#)  
Cane/Beet Belt Scales and Solids Flowmeters: [Siemens MSI & WF300 solids flow](#)  
Mash Level and Flow: [Siemens LR100](#), [Siemens 5100W/1100](#), [Signet 2552](#)  
Bagasse Level and Belt Scales: [Siemens LR500 series](#), [Siemens MSI Belt scale](#)  
Cogen Plant Level, Temp, Press and Flow: [Siemens P320](#), [HydroRanger](#), [LR250](#),  
[5100W](#), [Moore Ind RTI](#), [QTS Magnetrac](#), [Wika Pressure Gauges and PSD](#)  
Vacuum Pan Level: [Siemens LR100](#), [Siemens P320/LR250](#)

Boiling Temperature: [Moore Industries RTI and Worm, Wika TG53](#)  
Wireless Communications: [Banner DX80/90, Elpro 915U, Signal Fire Ranger](#)

VFD's & Pump Alternating Control: [Precision Digital 765/6000, LSIS H100](#)  
Compressed Air Flow: [FCI ST51/ST80, Siemens P320/FS230](#)  
NH3 Refrigeration/Various Gas Detection: [MSA Chillgard 5000, MSA X5000](#)

## **Brewery**



Lauter Tun Level and Temperature: [Siemens P320/LR250 HEA, Mii RTI](#)  
Mash Kettle Level and Pressure: [Siemens P320/LR250 HEA, Wika PSD](#)  
Yeast Pitching Flow: [Siemens Mag1100 magmeter/FC500 coriolis](#)  
CO2 and NH3 Detection: [MSA Chillgard 5000 & X5000, MSA A5X/GX2](#)  
CO2 Valve Positioners: [Siemens PS2/PS100](#)  
Grain/Malt Silo Level: [Siemens LR500 series/LR100](#)  
Various Hopper Point Levels: [Siemens CLS/LVL200, FCI FLT93](#)  
Wort Kettle Temp & Flow: [Siemens 5100W/1100, Moore RTI, Wika TG53](#)  
Steam & Sanitary Control Valves: [Jordan Mk 978, Jordan Mk75/60/95/96](#)  
Liquid Analytics: [ECD T80/S80, Signet 2750/2724](#)  
Filtration Flow Pressure Temperature: [Siemens 5100W/1100/P320, Mii RTI](#)  
Bright Beer Tanks Level: [Siemens LR250 HEA](#)  
Whirlpool Flow and Pressure: [Siemens 5100W/1100/P320, Wika Press Gauges](#)  
Filling Flow: [Siemens 5100W/1100/FC430](#)

Yeast Cellar Pressure & Temperature: [Siemens P320, Moore RTI and Worm, Wika Press Gauges, Sanitary transmitters/Gauges](#)  
PID Control and Alarm Trips: [Moore 535/SPA/STA](#)  
Mash and Wort Density: [Ronan X96S](#)  
Foam Trap Point Level: [Siemens CLS/LVL, FCI FLT93](#)  
Plato or Brix Measurement: [Siemens FC430/FCS300](#)  
Wireless and Valve Automation: [Banner DX Series, Elpro 915U, Signet EA](#)  
VFD's & Pump Alternating Control: [Precision Digital 765/6000, LSIS H100](#)  
Compressed Air Flow: [FCI ST51/ST80, Siemens P320/FS230](#)

## **Dairy**



Sucrose & Fructose Level: [Siemens LT500 HydroRanger, QTS Magnetrac](#)  
Pasteurization Flow and Temperature: [Siemens FC500 Coriolis/1100 magmeter, Moore RTI](#)  
Resin Silo: [Siemens LR500 series/LR100](#)  
Cream Press & Skim Press Flow, Temperature & Control Valves: [Siemens 5100W/1100, P320, FC430, Signet 2536/2552, Jordan Mk75/708/978](#)  
Glycol Flow and Control Valves: [Siemens FS230, Signet 2536, Jordan Mk75](#)  
Separation Flow, Temp, Pressure: [Siemens 5100W/1100/P320, Moore RTI and Worm, Wika Press Gauges/TG53/PSD-4](#)  
NH3 Detection: [MSA Chillgard 5000 & X5000, MSAA5X/GX2](#)  
Homogenization Flow & Temperature: [Siemens 5100W/1100, Moore RTI](#)  
Final Storage Vessels: [Siemens LT500 HydroRanger/LR250](#)

Blending Flow: [Siemens magmeters 5100W/1100/FC500 Coriolis](#)  
PID Control for Homogenization and Pasteurization: [Moore 535](#)  
Valve Positioners: [Siemens PS2/PS100](#)  
Flow Switches: [FCI FLT93](#)  
VFD's & Pump Alternating Control: [Precision Digital 765/6000, LSIS H100](#)  
Compressed Air Flow: [FCI ST51/ST80, Siemens P320/FS230](#)  
Density or Brix Measurement: [Siemens FC430/FCS300, Ronan X96S](#)  
Liquid Analytics: [ECD T80/S80, Signet 2750/2724](#)  
Wireless and Valve Automation: [Banner DX Series, Elpro 915U, Signet EA, Signal Fire Ranger](#)

## **Bakery**



Cream Yeast Flow and Control Valves: [Siemens FC500, Jordan Mk978](#)  
Datum Flow and Control Valves: [Siemens FC500, Jordan Mk978](#)  
Flour & Dry Mixer Solids Flowmeter: [Siemens WF300 solids flow](#)  
Flour and Sugar Silos: [Siemens LR500 series/LR100](#)  
Glycerin Tote Level: [Siemens LT500 HydroRanger/LR250 FEA](#)  
Glycerin Flow: [Siemens 5100W/1100, Signet 2552, FC500 Coriolis](#)  
Flour and Sugar Silo Point Level: [Siemens CLS/LVL, FCI FLT93](#)  
Water Flows: [Siemens 5100W, Signet 2536/2551](#)

Oven Temperature: [Moore Industries RTI and Worm](#), [Wika TG53](#)  
Flour and Sugar Belt Scales: [Siemens MSI](#)  
Wet Mixer Flow: [Siemens 5100W/1100](#), [Signet 2552](#), [MacNaught MX](#)  
NH3 Detection: [MSA Chillgard 5000 & X5000](#), [MSAA5X/GX2](#)  
Freezer Temperature: [Moore Industries RTI](#)  
Steam Control Valves/Positioners: [Jordan Mk75/60/50](#), [Siemens PS2/PS100](#)  
Liquid Analytics: [ECD T80/S80](#), [Signet 2750/2724](#)  
Wireless and Valve Automation: [Banner DX Series](#), [Elpro 915U](#), [Signet EA](#),  
[Signal Fire Ranger](#)  
VFD's & Pump Alternating Control: [Precision Digital 765/6000](#), [LSIS H100](#)  
Compressed Air Flow: [FCI ST51/ST80](#), [Siemens P320/FS230](#)