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# GILSON ENGINEERING

## COAL PREP PLANT PRODUCT GUIDE

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**[Website: www.gilsoneng.com](http://www.gilsoneng.com)**

### **PITTSBURGH, PA**

535 Rochester Road  
Pittsburgh, PA 15237-1747  
p (412) 369-0100  
f (412) 366-1728

### **COLUMBUS, OH**

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

### **CLEVELAND, OH**

4660 Main Hill Drive  
Seven Hills, OH 44131  
p (440) 543-0300  
f (440) 543-1230

### **CINCINNATI, OH**

10984 Main Street #1  
Cincinnati, OH 45241  
p 800-860-4499  
f (412) 348-3042

### **CHARLESTON, WV**

3501 MacCorkle Ave SE #143  
Charleston, WV 25302  
p (304) 342-0012  
f (304) 342-0085

### **TOLEDO, OH**

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

### **LOUISVILLE, KY**

711 Bass Lane  
Shelbyville, KY 40065  
p 800-860-4499  
f 412-348-3042

### **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

### **MIAMI, FL**

1155 97<sup>th</sup> St #201  
Bay Harbor Is, FL 33154  
p 800-860-4499  
f (407)444-0335

### **JACKSONVILLE, FL**

391 Ahern Street  
Atlantic Beach, FL 32233  
p 800-860-4499  
f (407)444-0335

***“PROCESS MEASUREMENT, CONTROL & AUTOMATION”***

## Plant Infeed



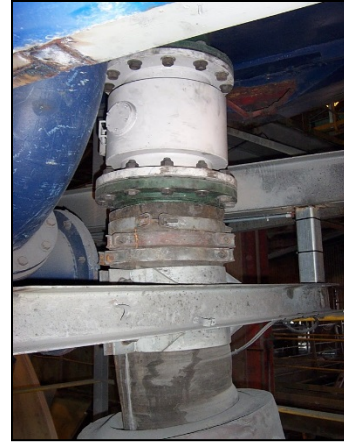
Belt scales - Siemens-[Milltronics MSI/MMI](#) series belt scales  
Conveyor failure detection – Siemens [speed switches](#) and [motion failure alarm](#)  
Raw coal silo level – Siemens-[Milltronics LR560](#) radar gauge  
Truck dump, crusher level – Siemens-[Milltronics LUT400](#) ultrasonic level gauge  
Coal sampler bin level – Siemens-[Milltronics LUT400](#) ultrasonic level gauge  
Plugged chute detection – Banner Engineering photoeyes  
Siemens-[Milltronics CLS300](#) and [LVS200](#) probes  
Siemens [Acoustic sensor for material flow monitoring](#)

## Processing



Magnetite bin level - Siemens-[Milltronics LR560](#) radar gauge  
Media & thickener underflow density – Thermo Fisher [Density Pro Plus nuclear density](#)  
Cyclone pressure – Siemens [DSIII series pressure transmitter](#)  
Sump level – Siemens [DSIII series differential flanged level transmitter](#)  
Chemical tank level – Siemens-[Milltronics Probe LU](#) and [LU150 ultrasonic level](#)  
Froth flotation cell level – Siemens-[Milltronics Probe LU](#) and float plate for floatation cells  
Belt press safety light curtains – Banner Engineering EZ-Screen LS light curtains  
Water valves and automation –[Georg Fisher Signet](#)  
Lubricant flow monitoring – [UFM \(Universal Flow Monitors\)](#)  
Bearing vibration and temperature – Banner Engineering QM42VT1

## Thickener, Clean Coal and Refuse



Thickener bed depth – [ATI/Entech Design Echosmart level transmitter](#)

Thickener pH – [ECD S80](#) sensors and [T80 transmitters](#)

Belt scales – Siemens-[Milltronics MSI/MMI](#) series belt scales

Clean coal silo level – Siemens-[Milltronics LR560](#) radar gauge

Slurry flows – Siemens [MagFlo 5100](#) and [3100 series magnetic](#) flowmeters

Slurry Pipe Leak Box Fluid Detection – Siemens-[Milltronics CLS200](#) point level switches

## Balance of Plant



Water tank level – Siemens-[Milltronics Probe LU](#) and [LU150 ultrasonic](#) level transmitters

pH & ORP measurement - [ECD S80 sensors](#) and [T80 transmitters](#)

Pond level - Siemens-[Milltronics Probe LU](#) and [LU150 ultrasonic](#) level transmitters

Wireless for remote signals – [Elpro](#), [Banner Engineering license-free radios](#)

Signal isolators and splitters – [Moore Industries](#)

Panel and field-mount indicators – [Precision Digital](#)

Gas monitoring– Mine Safety Appliance (MSA) [X5000](#) single point sensors

[Altair4X](#) portable gas detectors