



# Barton Oxide Production System

## Panel View Screens

**Reactor #1**

Time: HH:MM  
Date: MM/DD/YY

Buttons: Reactor #1 Control, Timer Control, Maintenance Screens, Analog Input Scaling, IO list Screen's, PID Controllers, Set Alarms & Monitor Auto Sequence

ALARMS, TRENDS

**Automatic Operation**

Setpoints: Draft, Fan Speed, Reactor Load, Reaction Temp, Chamber Temp, Lead Line, Min. Lead Out

Outputs: Exhaust Fan Speed, Lead Pump, Water Pump, Chamber Damper Open

Buttons: System Stop, System Start, System Preheat

**Automatic Operation**

Setpoints: Draft, Exhaust Fan Speed, Reactor Load, Reaction Temp, Chamber Temp, Lead Line, Min. Lead Out

Outputs: Exhaust Fan Speed, Lead Pump Speed, Water Pump Speed, Chamber Damper Open

Buttons: System Stop, System Start, System Preheat

**Equipment Startup**

Buttons: Meltpot, Breakers, Overloads, E-Stops, Lead Line, Reaction Temp, Chamber Temp, Lead Line, Min. Lead Out, Chamber Preheat, Reaction Start

Warning: THE AGITATOR MOTOR WILL START IN ## SECONDS. PRESS THIS BUTTON TO PAUSE MOTOR OR RESET COUNTDOWN

**Analog Input Scaling Setup**

Input	Min.	Max.	Scaled Min.	Scaled Max.	Sample Size	Scaled
Screw Conveyor Current (A x 100)	set	set	set	set	set	set
Riser Pipe to Inlet DP (* x 100)	set	set	set	set	set	set
Riser Pipe Static Pressure (* x 100)	set	set	set	set	set	set
Inlet Static Pressure (* x 100)	set	set	set	set	set	set
System Static Pressure (* x 100)	set	set	set	set	set	set
Baghouse DP (* x 100)	set	set	set	set	set	set
HEPA Filter DP (* x 100)	set	set	set	set	set	set
Exhaust Air Velocity (* x 1000)	set	set	set	set	set	set
Agitator Current (A x 10)	set	set	set	set	set	set

Buttons: Press to Reset Controller After Change, REACTOR CONTROL, MAIN PAGE

**Vibrator Setup**

Buttons: BAGHOUSE VIBRATOR, CYCLONE VIBRATOR, LID VIBRATOR, RISER PIPE VIBRATOR, AUTO-SAMPLER

Settings: AUTO MODE (PRESS FOR MANUAL), VIB OFF TIME, VIB ON TIME, FOR MANUAL MODE ONLY, OFF, PRESS TO TURN ON

Buttons: REACTOR CONTROL, MAIN PAGE



**Startup/Shutdown Progress and Alarms**

Item	Out	In	Sequence Tim (sec)	Timer Status	Settings	Status
Rotary Feeder	set	set	set	set	deg	set
Screw Conveyor	set	set	set	set	deg	set
Oil Pump	set	set	set	set	deg	set
Exhaust Fan	set	set	set	set	deg	set
Agitator Motor	set	set	set	set	deg	set
Lead Pump On	set	set	set	set	Amp	set
Lead Pump High	set	set	set	set	Hz	set
Lead Pump Low	set	set	set	set	Hz	set
Reaction Establish	set	set	set	set	Hz	set
Water Pump	set	set	set	set	Hz	set
Shutdown Amps Ctrl	set	set	set	set	Amp	set
Shutdown Cleanout	set	set	set	set	set	set

Buttons: REACTOR CONTROL, MAIN PAGE

**Process Controller Setup**

SETPOINT	Draft Control	Agitator Load	Chamber Temp	Reaction Temp
PROPORTIONAL BAND	set	set	set	set
INTEGRAL TIME	set	set	set	set
DERIVATIVE TIME	set	set	set	set
SAMPLING PERIOD	set	set	set	set
INPUT VALUE	set	set	set	set
OUTPUT VALUE	set	set	set	set

Buttons: Press to Reset Controller after Change, REACTOR CONTROL, MAIN PAGE