

J.H.M.C. Robotics, Inc.

Design Excellence by Choice in Material Controllers Since 1972

P.O. Box 370 Mi Wuk Village, CA 95346
Ph.: (209) 586-4970 Fax: (209) 586-3951
Web site: www.JHMCrobotics.com

Features for the SIERRA Material Controllers

The Sierra 4 is an Entry Level Material Controller. It is a GE PLC and PC based system with color graphics and is phone line ready with modem communications for factory diagnostics and Sierra software upgrades if needed. Each controller will be populated with the necessary hardware and software to control your plant per your specifications up to the maximum features listed below for a VERY attractive price.

There is only 1 option for the Sierra:

- 1.) **Manual Switches and Lights mounted on the I/O PLC cabinet**, for plants that do not have any
- 1 You may change the back ground color on the Run screen.
- 2 You can turn Error Voice Alert ON or OFF.
- 3 There are 2 different voices for announcing errors.
- 4 All Inputs and Outputs are assignable.
- 5 Each Bin is configurable to start the fill either on a Low or Not High Bin level.
- 6 Gates change to another assigned gate, if any, with no material flow or on fill start and no material flow, each Bin is settable.
- 7 Auto Skip will Skip a Bin should you run out of material for the gates assigned to that Bin.
- 8 A Login Name is required to operate the controller for security.
- 9 Passwords for all screens may be used, if desired.
- 10 All operations from the run screen and any Edit changes are logged for 1 year; can be printed out; printer not included.
- 11 Bin to Fill Sequence is settable, 3,2,5,6,4,1. or assign a priority number to selected bins.
- 12 When a Bin Fill Completes, the Bin to fill Sequence can either continue or start over.
- 13 The Product is displayed in each Bin and warns if a Gate is of the wrong material in Manual feed from the PC.
- 14 You may set all High Bin level Devices at a lower level, and then tune the Sierra to fill each Bin correctly.
- 15 Belts are interlocked to start in Sequence when operated from the PC, if a belt stops, all feeding belts will stop and close the gates.

The SIERRA Feature List Continued.

- 16 Plants that already have Manual Switches and Lights will not need to buy that option.**
- 17 16 Assignable Products for plant**
- 18 Up to 3 Bins assigned to a Product**
- 19 Up to 4 Gates assigned to a Product**
- 20 6 Overhead Bins Maximum**
- 21 2 Belts Maximum**
- 22 A Turn Head (360 / reversible)**
- 23 8 Storage Gates**
- 24 Storage Gate closed limit switch input monitoring for each gate**
- 25 4 Manual and Automatic Vibrators each plant, are controlled when Sand is feeding**
- 26 6 High Bin level Input monitoring**
- 27 6 Low Bin level Input monitoring**
- 28 6 Bin Turn Head position monitoring**
- 29 2 Belt running inputs, each belt can monitor for:
 - 1. A contact closure from a motor starter or a zero speed switch**
 - 2. A pulse from a Proximity switch on the belt tail pulley, 5 pps max****
- 30 Belt Product Flow Monitoring**
- 31 Up to 4 Gates of same material assigned to each overhead Bins**
- 32 A Belt Water spray bar is controlled when Rock is feeding**
- 33 The Sierra will fill the plant in automatic mode for 1 fill cycle, each time the Remote Auto switch is keyed on the manual panel, should the PC go down, as long as the PLC is running**
- 34 Illegal Gate open monitoring and interlocks to stop belts as needed**
- 35 The manual Switches and Light option now has plugs and receptacles and are replaceable, if needed, without any soldering.**
- 36 NO costly Service Contract to purchase.**

It is JHMC Robotics policy to furnish phone support 24/7/365 to all our Handler systems at no charge. This ALONE can save you thousands of dollars over the life of the controller since there is no yearly service contract to buy in order to get help if needed.

To learn more about the SIERRA Material Controller or to request a Demo CD, contact us at 209.586.4970. If this controller does not have the features you need, the Handler REGAL is the ultimate state of the art Material Control with many more features. If it does not have the feature you need it's very likely that we will add it to the REGAL.