

Batch PLC Interface HMI Notes

This program serves as an HMI to a PLC running one of the “Batch PLC” programs. Using RSLinx Pro (or higher), it establishes a DDE Link to RSLinx so as to send data to and receive data from a PLC.

For the DDE Link to work, RSLinx must be running, and have a DDE Topic defined with the name of “Batch780_PLC” (the topic name can be changed in the “Packaged_Batch_PLC.ini” file, at the “RSLINX_TOPIC” entry). The topic must have its data source selected to a PLC that has one of the Batch PLC Interface programs (“Batch780_PLC_CNET_IP_V16.ACD” or “Batch780_PLC_ENET_IP_V16.ACD”) installed into it and running.

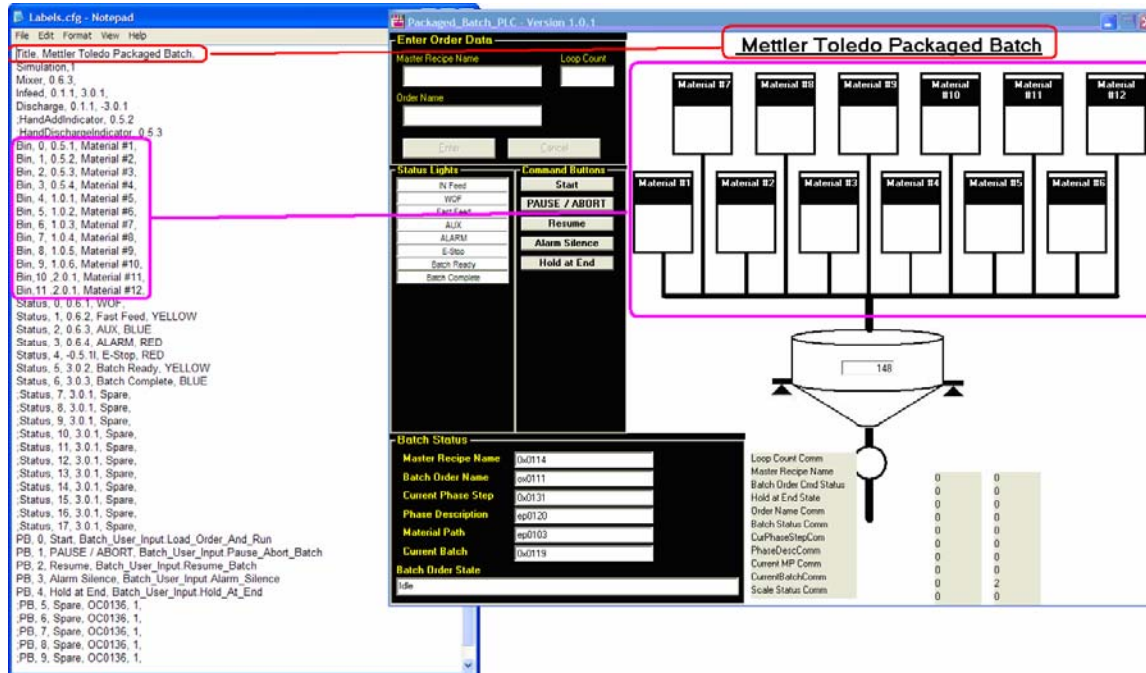
Below is a screen shot of the HMI.

Parameter	Value
Loop Count Comm	0
Master Recipe Name	0
Batch Order Cmd Status	0
Hold at End State	0
Order Name Comm	0
Batch Status Comm	0
CurPhaseStepCom	0
PhaseDescComm	0
Current MP Comm	0
CurrentBatchComm	0
Scale Status Comm	0

The Status Lights, Command Buttons, and Bins (including the labels as well as how many are displayed) are configurable from the “Labels.cfg” that resides in the “C:\Program Files\METTLER TOLEDO\Packaged Batch PLC Interface” directory.

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The “Labels.cfg” file configures the HMI screen as follows:

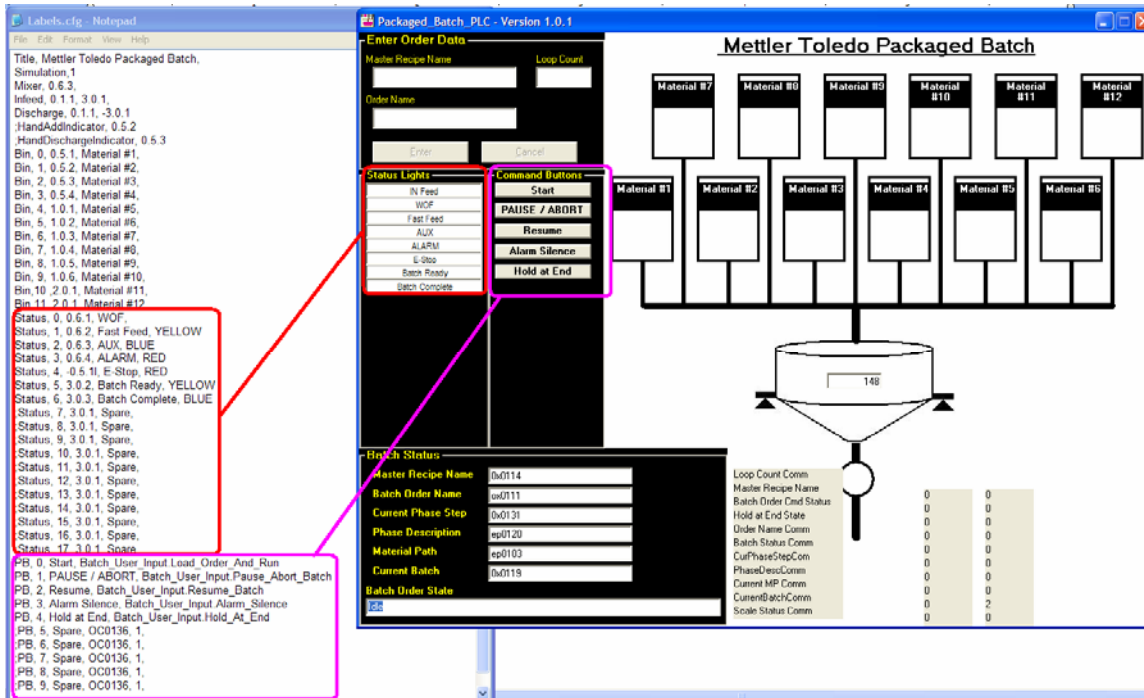


All entries can be commented out using a semi-colon (;) in the first column of the line.

The string following the tag “Title” is the title that appears at the top of the HMI.

The “Bin” tags each have a number (0 – 11) designating which bin is being configured. The three digit number that follows the bin designation (for example, 0.5.1) indicates the output that will turn the bin green when it turns on. The string immediately following the output is what will be displayed in the bin’s name plate.

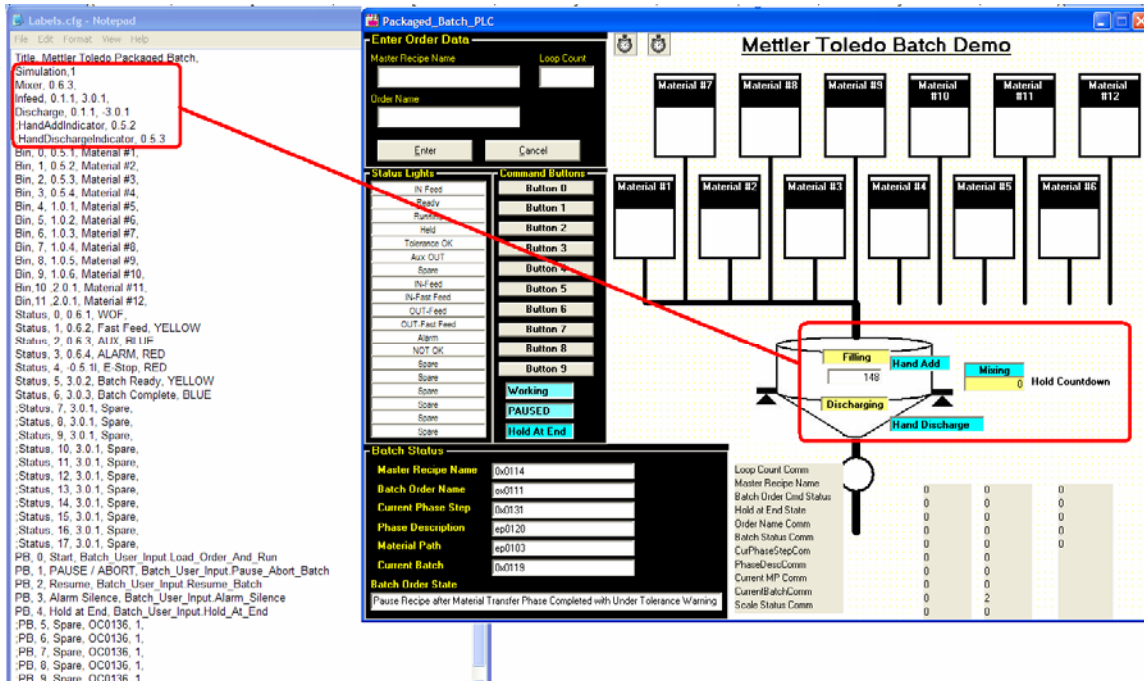
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The “Status” labels correspond to the “Status Lights” on the HMI. Just like the Bin, the Status Labels are followed by a number designation that indicates which of the 18 configurable status lights the line refers to. After the designation number comes the output (for instance 0.6.1). If it is desired to display the status of an input, follow the I/O designation with a capital letter ‘I’ (see Status, 4, -0.5.1I). Note that if you desire to show the Input or output Illuminated when the I/O point is OFF instead of ON, put a minus sign (“-”) in front of it. The string that immediately follows the I/O point is the text that will appear in the Status Light’s label. This is followed by a color designation. Colors can be RED, YELLOW, GREEN, or BLUE. The default color is GREEN if none is specified.

The “PB” labels correspond to the “Command Buttons” on the HMI. Like the Bin and Status labels before it, the PB labels are followed by a number designation that indicates which of the 10 (0-9) configurable command buttons the line refers to. Immediately following the number is the text string that will appear on the button. After the text string will be a PLC Tag name that the button will write a value of “1” to when it is clicked.

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Other miscellaneous tags in the Labels.cfg file control the following:

1. Simulation
 - a. When followed by a 0, no simulation is used (actual scale values will be read)
 - b. When followed by a 1, run a scale simulation routine to simulate scale feeds on a Batch Terminal.
2. Filling indication
3. Discharge Indication
4. Mixing Indication
5. Hand Add Indication
6. Hand Discharge Indication