

Custom Batch Control Systems



Batch Control Made Easy!

KEP offers custom batch control solutions for applications requiring multiple preset batch quantities. An easy to use and custom interface is provided using one of our touchscreen O/I displays which are connected to a KEP flow batch controller and are all mounted in a single NEMA wall mount enclosure.

The Batch Control System Consists of:

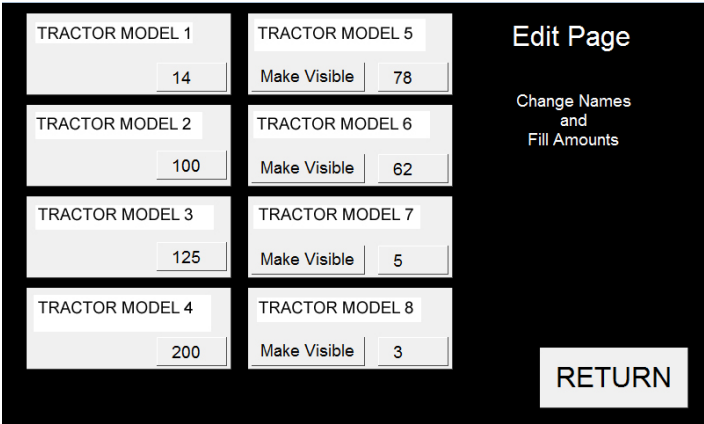
- A choice of flow computer/batch controllers to suit your specific application
- O/I touchscreen display; Choose from different models and screen sizes
- NEMA4x Enclosure; Many sizes and configurations available.
- Custom programmed touchscreen project created specifically for your application
- Many accessories available

Example 1

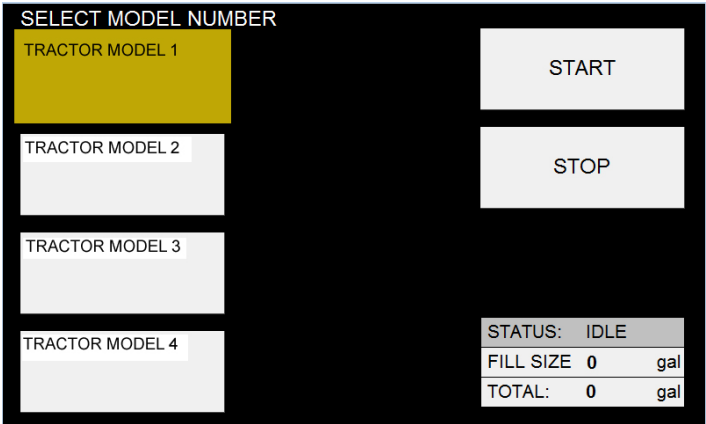
Batch by ID and Assigned Batch Quantities

Example 1

A facility manufactures tractors of different sizes. The tractors range from small machines with fuel tanks less than 20 gallons to large machines with fuel tanks of hundreds of gallons. Each tractor is assigned a model number and the customer wants to assign a batch quantity amount to each tractor based on it's related fuel tank size. The system chosen uses a SUPERtrol 1LE (ST1LE) Batch Controller and an MT8070iE O/I touchscreen display. The ST1LE is connected to the flowmeter and control valve on the fuel fill line. The MT8070iE display has been programmed with a custom project that allows the user to assign "Fill Size" amounts to each tractor model. When the Fill Sizes are set to the tractor models, the display allows the customer to simply choose which tractor model to fuel and press start to begin the fueling process. This loads the corresponding Fill Size into the ST1LE Preset Register and the ST1LE sends a signal to the control valve to open the valve and begin the batch. The fill size and total are displayed on the MT8070iE display and when the Fill Size quantity is reached, the ST1LE sends a signal to shut the valve and the batch is complete. The system will remain in standby until the next tractor is ready to be fueled. Records are kept for each fill operation.



In the "edit mode", the user assigns Fill Sizes for each tractor.



In the "run mode", the user selects which tractor to fuel and hits START to start the fueling process.



Kessler-Ellis Products

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Example 2 Batch Tracking with Ticket Printing

Example 2

The ES765SYS is a complete truck loading batching system consisting of one flow batching computer(ST1LE) and MT8070iE graphic display panel. Other flow computer and graphic display panel models are available upon request. The system is enclosed in a fiberglass NEMA4X enclosure and can be prewired by the factory prior to shipping (PW option recommended)

This System Includes:





- Complete Flow Batcher with Graphic Operator Interface Display Panel System
- Add up to 100 Customers with Unique Truck ID Numbers
- View Graphical Real Time Trending and History Trends
- Record Data to Memory Stick
- Light Weight Enclosure with Hinged Cover
- Ethernet Connectivity Option
- RS485 Modbus Connectivity Option



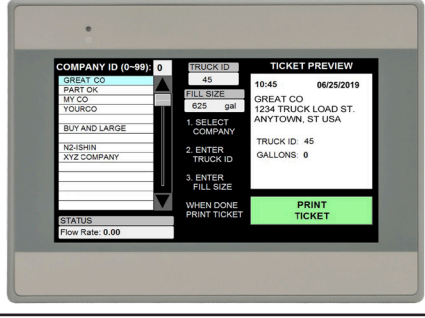

Main Screen:

COMPANY ID (0~99): 0	TRUCK ID	TICKET PREVIEW
GREAT CO	45	10:45 06/25/2019
PART OK	FILL SIZE	GREAT CO
MY CO	625 gal	1234 TRUCK LOAD ST.
YOURCO		ANYTOWN, ST USA
BUY AND LARGE	1. SELECT COMPANY	TRUCK ID: 45
N2-ISHIN	2. ENTER TRUCK ID	GALLONS: 0
XYZ COMPANY	3. ENTER FILL SIZE	
	WHEN DONE PRINT TICKET	PRINT TICKET
STATUS		
Flow Rate: 0.00		

Choose a Batch Controller



Flow Computer/ Batch Controller	Description	Flowmeter Compatibility
SUPERtrol I (ST1) 	Batch Controller with pulse and analog inputs, Temperature compensation	All linear and square law meters supported including: vortex, turbine, magnetic, PD, target, orifice, venturi, v-cone, coriolis and many others
SUPERtril ILE (ST1LE) 	Batch Controller with pulse inputs	All pulse producing flowmeters
ES747 	Batch Controller with pulse inputs and 10 Selectable Fluid Tables	All pulse producing flowmeters
MS716 	Batch Controller with pulse and analog inputs, Temperature compensation for Remote Vehicle & Skid Mounting	All linear and square law meters supported including: vortex, turbine, magnetic, PD, target, orifice, venturi, v-cone, coriolis and many others

Choose a Touchscreen HMI Display



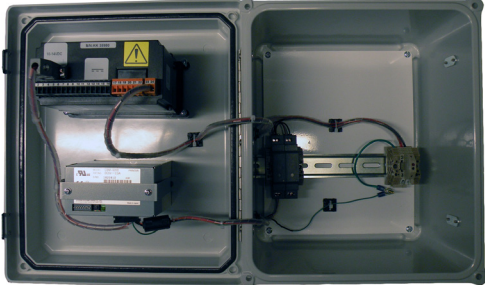
HMI Display Model	Description
MT8070iE 	HMI 7" LCD Display Touchscreen and Ethernet with CLASS1, DIV2 Rating <ul style="list-style-type: none"> 7" 800 x 480 TFT LCD, LED Backlight Slim design Fan-less Cooling System COM1 and COM3 RS-485 dual isolation design ensures reliable operation in complex grounding application COM1 and COM3 RS-485 2W support MPI 187.5K, please use one at one time PCB coating process ensures high reliability to resist from corrosion in harsh environment NEMA4 / IP65 Compliant Front Panel
eMT3070A 	7" HMI Display Panel and Touch Screen <ul style="list-style-type: none"> Aluminum Housing and Brand-new Color & Design 800x480 TFT LCD Fan-less Cooling System Built- in 256MB Flash Memory and RTC NEMA4/IP65 compliant front panel One USB Host and One USB Client Port SD Card Slot supports SD and SDHC cards Power Isolator Inside Com1 or Com3 RS485 2W

Communicates with Batch Controller RS485 Modbus Option

Choose an Enclosure

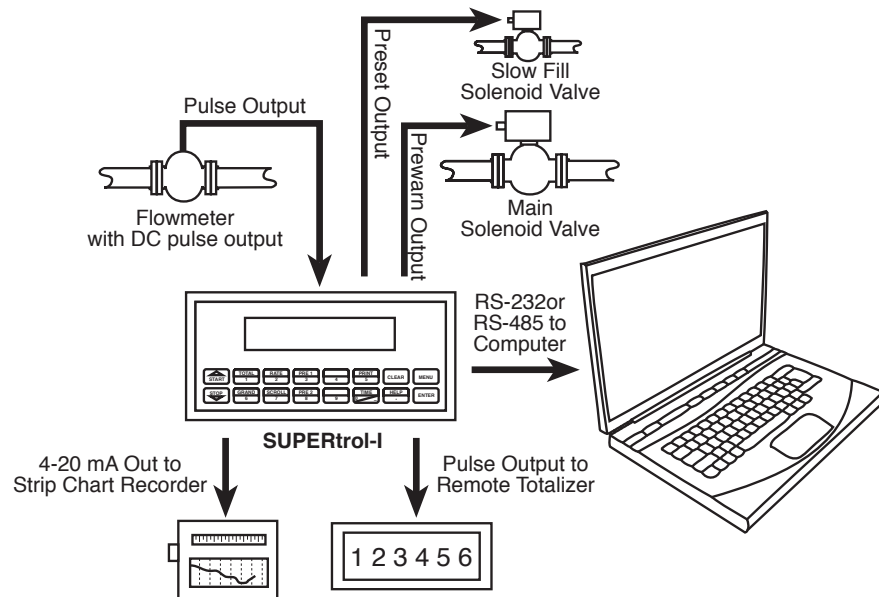
Enclosure	Description
<p>MS799</p> 	<p>Features</p> <ul style="list-style-type: none"> • Large Size: 14”(H) x 12”(W) x 7.75”(D) • Molded fiberglass polyester has outstanding chemical and temperature resistance qualities and exhibits excellent weatherability and physical properties • Accommodates Flow Computer(s) and Accessories (printers, converters, etc.) • Seamless foam-in-place gasket assures watertight and dust tight seal • Stainless steel mounting brackets and attachment screws are provided with each enclosure • Hinge is corrosion-resistant type stainless steel • Padlock provisions included on each quick release latch
<p>MS816</p> 	<p>Features</p> <ul style="list-style-type: none"> • Extra Large Size: 16”(H) x 14”(W) x 8”(D) • Can Accommodate Multiple Products with Accessories Mounted Inside • Meets NEMA 4X/IP65 Specs. • Quick-Release latches (standard) • Hinged Cover (on left) • Light Weight • Options: <ul style="list-style-type: none"> Sub Panel DIN Rail Pre-wired to DIN Rail Terminal Block

Custom Mounting Configurations

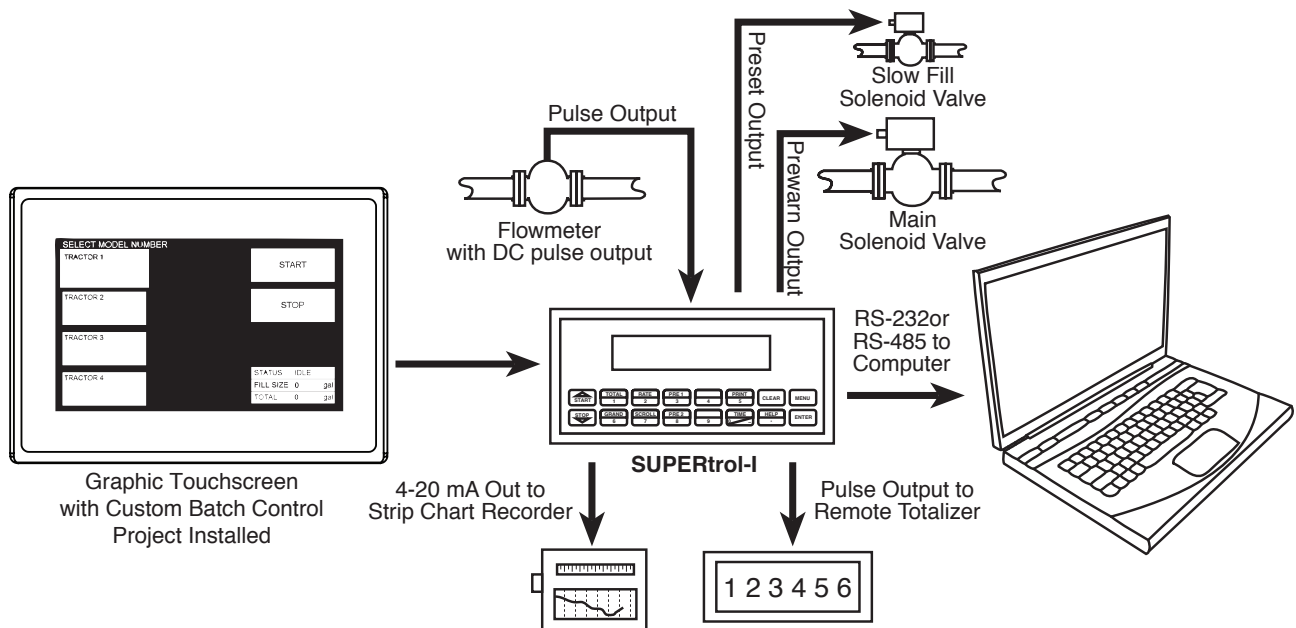
	<p><i>Touchscreen I/O Panel and Single Batch Controller Mounted on Front</i></p>		<p><i>Touchscreen I/O Panel and Two Batch Controllers Mounted on Front</i></p>
	<p><i>Touchscreen I/O Panel Mounted on Front with Batch Controller Mounted on Internal Sub Panel.</i></p>	 <p><i>Optional Accessories and Prewiring Options Available</i></p>	

APPLICATIONS

Typical Batch Control Application



Custom Batch Control Application



See Batching Solutions Here: <https://KEPmeters.com/batch-controllers/>
See Operator Interface Solutions Here: <https://KEPdisplays.com/>