

KEP One Minute Training BATHTROL-2 SERIES

August 99

What Is It?

The Batchtrol-2 is actually a pulse or analog input Batcher, Rate/Totalizer. Featuring 8 digits of bright, .55", alpha-numeric display, the pulse input version of the Batchtrol-2 can accept up to 20,000 pulses per second. The analog input version accepts inputs, such as 4 to 20mA or 1 to 5vdc. It uses a highly linear integrator (V to F converter) to generate 0 to 10 kHz digital pulses.

The standard BT-2 has two separate, 8 digit, floating decimal, "K" factors to convert the inputs to meaningful total and rate data. An optional 16 point K-factor can linearize flow from meter outputs. The user, with the push of a button, can toggle back and forth to view the total of the batch, the rate of flow and the grand total count. Two control outputs can be assigned by the user to activate at a Prewarn and Preset Batch for two stage batching.

An open collector driver also provides a scaled pulse output. Since the output frequency is user selectable at 10, 200, 2K or 20K Hz, the unit can transmit the total data to remote Electro-mechanical or electronic totalizers as well as computers, programmable controllers or other monitor equipment.

An optional analog output allows the user to select low and high settings to control strip chart recorders or other peripherals. Up to 15 units can be connected to optional RS232 or RS422 communications port to set control points or access data.

Finally we offer operating voltages of 120 / 240 VAC or 12 to 27 VDC.

Where Is It Used?

The various BT2 models can be used in any Batching, Ratemeter or Totalizing applications where there is an analog or pulse signal to monitor or display.

Flow Batching:

A customer of KEP's installs Batching systems for various Bakeries'. A Positive Displacement Flow Meter puts out a pulse type output to the BT-2 and the BT-2 then takes that signal and batches gallons of water as well as the rate at which the water was batched. The two separate K-Factors give the customer the ability to display the rate in gallons per minute and the Batch amount in gallons. The Grand Total will keep a running total of all gallons batched.

Flow Applications:

During flow processes, 3 variables are often monitored: flow rate, total, and grand total. These variables can be transmitted via an optional RS-232/422 communications port to a computer or through the optional analog output of the unit.



Typical Applications:

Waste Water Treatment

Oil Refineries

Commercial Bakery's