

KEP One Minute Training

KEPTROL R/T SERIES

April 99

What Is It?

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

The standard KEPTrol R/T 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 independently by the user to activate at preset batch total, rate or grand total for .1 to 9.9 seconds or until reset.

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?

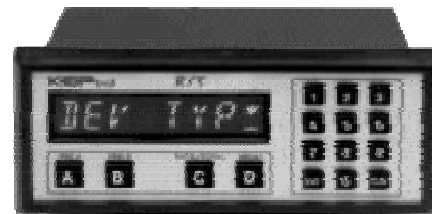
The various KRT models can be used in any rate meter or totalizing applications where there is an analog or pulse signal to monitor or display.

Flow Monitoring:

A customer of KEP's installs monitoring systems for various Oil companies. A Positive Displacement Flow Meter puts out a pulse type output to the KRT and the KRT then takes that signal and displays Total gallons used as well as the rate at which the oil was produced. The two separate K-Factors give the customer the ability to display the Rate in gallons per minute and the Total in barrels.

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

Chemical Companies