

# KEP One Minute Training

## RTP SERIES

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### What Is It?

The RTP is actually a series of counters and rate meters that take a pulse input. That pulse input is usually a 4-24 Volt DC pulse given from a flowmeter, or sensor. The RTP can display A, B, A+B & A-B on a two line backlit LCD display.

The RTP can be used as a totalizer or a rate meter or as both at the same time. For instance, you might want to see both your daily production along with the rate at which you are producing (per second, minute, or hour). It can also scale (we have separate K-Factors for each input) the incoming pulses. The standard unit also has separate 16 point linearization tables.

Let's say that the flowmeter gives off 10 pulses for every gallon of fluid going by. The pulses can be scaled such that the RTP shows a count of 1 for every 10 pulses. In other words, we would increment the total by only one for every 10 pulses that came into the unit. We could then see the total of gallons that were run and the rate at which they were flowing.

The RTP has two inputs (A & B) along with two outputs. This allows for many different scenarios for the setup of this unit. The total can be programmed for input "A" subtract "B", "A" add "B", or "A" & "B" as separate counters. You can display "A" & "B" input totals, the 'net' of the two inputs if you are using that option, or the rate of A, B, A+B or A-B inputs. The two outputs can be set up for the "A" total, "B" total, the 'net', or the Rate of "A or B". These outputs are N.O. relays, 5 AMPS 120/240 VAC.

Finally, we offer an analog output option, RS-232 or RS-485 communications, operating voltages of 120Vac, 240Vac, or 24VDC.

### Where Is It Used?

The various RTP models can be used in any simple counting or rate meter applications. It is ideal if the application needs either two inputs or two outputs with scaling.

#### 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 RTP. The RTP then takes that signal and displays Total gallons used as well as the rate (gpm) at which the oil was produced..

#### 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 or RS485 communications port to a computer or through the optional analog output of the unit.



#### Typical Applications:

**Totalizer and Rate Meter**

**Net Rate & Net Total (A-B) or (A+B)**

**Measuring Length**

**Line Speed indicator with Totalization**

**Net Part Counter - All Parts - Bad Parts**