

# KEP One Minute Training

## DRT SERIES

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### What Is It?

The DRT is a dual 5 digit, Ratemeter/Totalizer in a 1/8 DIN package. The DRT can display A, B, & C Rate and A, B, & C Total. C Displays A+B, A-B, A / B, & A / (A+B) on a L.E.D. display.

The DRT 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.

Let's say that the flowmeter gives off 100 pulses for every gallon of fluid going by. The pulses can be scaled such that the DRT shows a count of 1 for every 100 pulses. In other words, we would increment the total by only one for every 100 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 and be able to calculate Net Flow Rate & Total.

The DRT 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", "A" & "B" as separate counters, "A" Divided by "B", or "A" divided by "(A+B)". The DRT 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, A-B, A / B, or A / (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 or RS-232, RS-422 or RS-485 communications. Operating voltages offered are 110Vac, 220Vac, or 24Vac, & 12 to 15Vdc.

### Where Is It Used?

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

#### Flow Applications:

During net flow processes, 6 variables are often monitored: Rate A, Total A, Rate B, Total B, and Net Rate & Net Total. These variables can be transmitted via the optional RS-232 or RS-422 or RS485 communications ports 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)**

**Ratio (A / B)x100 or (A / (A+B))x100**