

# KEP One Minute Training

## 530K SERIES

November 99

### What Is It?

The 530K is a 5 digit analog ratemeter/totalizer. A typical analog signal would be 0-20mA, 4-20mA, 0-10V or 2-10V. These signals are given off by various flow meters and sensors and can be put directly into the 530K.

The 530K can be used as a totalizer or a ratemeter or as both at the same time. For instance, you might want to see both your total gallons produced along with the rate at which you are producing (per second, minute, or hour). It is scaled by assigning a high and low number to the analogous high and low input. Let's say that the sensor gives off an output of 4mA (milliamps) when it measures 0 gallons and 20mA when it measures 10 gallons. Through the front keyboard, you put '0' for 4mA and '10' for 20mA and you have completed scaling the unit.

The 530K has a view button on the front, which allows the user to toggle between Integrated total and rate. The display span of the 530K is -19999 to 99999. When the display values for lowest and highest input signal are defined, the system displays a display value corresponding to the analog measurement value.

#### **Technical Data:**

Operating voltage 10 to 30 Vdc.

Maximum consumption: 50mA.

Resolution: 14 bits.

Measuring Speed: 1 sec.

Accuracy: 0.03% +/- 1 digit

Protection: NEMA 4X and IP 65 (Front)

Data Retention: EEPROM (1 million cycles or 10 yrs)

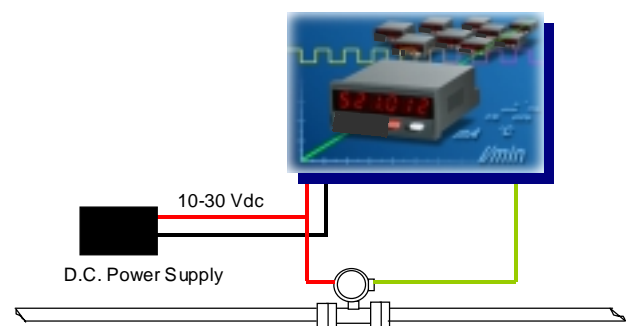
### Where Is It Used?

The 530K can be used in any simple rate meter or totalizing applications where there is an analog signal to monitor or display.

#### **Flow Rate/Total:**

In this application the customer needs to know the Rate and Total Flow of a liquid going through his system. The 530K is powered by KEP's 115-12 Power Supply which also supplies power to the Flowmeter. The 530K then takes the analog 4-20mA signal and integrates it into Flow Rate and Total. The Total consumption or Rate can be viewed by pushing the view button in the lower right hand corner of the unit.

During flow processes, 2 variables are often monitored: Flow Rate and Total these variables can be transmitted to the 530K to locally display these values via a analog input.



#### **Typical Applications:**

**Waste Water**

**Chemical**

**Cooling Water**

**Oil refinery**