## Lawson Labs, Inc.

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Model 105 and Model 106 Counts-to-Volts Converters

These devices are based on Delta-Sigma demodulation and are much more stable than similar products utilizing conventional techniques. They are suited for interfacing radiation counters, or other pulse output devices, to data acquisition systems. They can often serve as upgrades for conventional frequency-to-voltage converters. The frequency input ranges can be customized. The Model 105 is a singlerange device, while the Model 106 has a dual input range. Both are positive edge triggered.

## Model 105 Specifications

Standard Input Range Standard Output Range

Resolution

0 to 380 KHz (5 Volt logic)

1 volt per 200 KHz

One count per second when used with a sufficiently quiet high resolution A/D

converter 0.5 seconds.

Filter time constant

Linearity

Power requirement

0.001% of full scale, typical

+/-12 to +/-15 volts DC, regulated

## Model 106 Specifications

High Input Range Low Input Range High Output Range Low Output Range

Resolution

Filter time constant

Linearity

Power requirement

Other Features

0 to 380 KHz 0 to 7500 Hz

1 volt per 200 KHz

1 volt per 1666 Hz (100,000 CPM)

one count per second when used with a sufficiently quiet high resolution A/D

converter

jumper selectable, 0.5 or 3 seconds.

0.001% of full scale, typical

15 to 28 VDC regulated or unregulated, at

15 MA

Optical isolation on input

Steel Enclosure with range switch and

range indicator LEDS