

# A826PG Resolution

## 1. A/D Converter Specification

A/D Converter: ADS7805U (Burn Brown.)

16-bit resolution

100K Hz Sampling rate

+/- 3.0 LSB max INL (Integral linearity error)

Transition Noise:

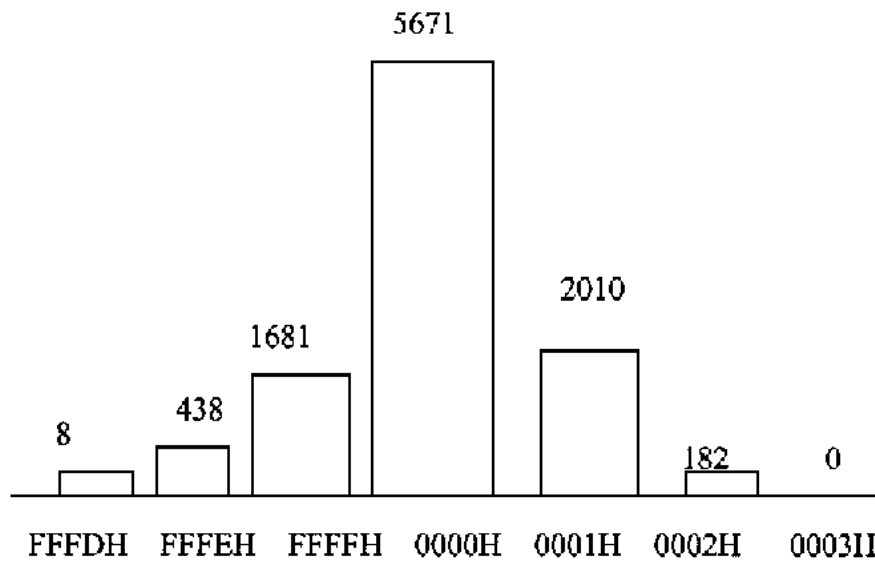


Figure 1. Histogram of 10,000 Conversions with Input Ground

A-826PG used the ADS7805U 16-bit A/D converter.

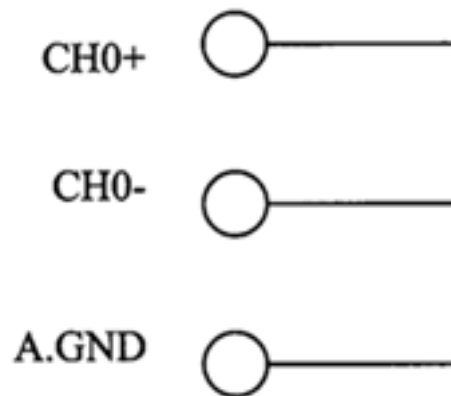
Input range: -10V to +10V, Every LSB resolution is 0.305mV.

The figure1. is from data sheet of Burn Brown company.

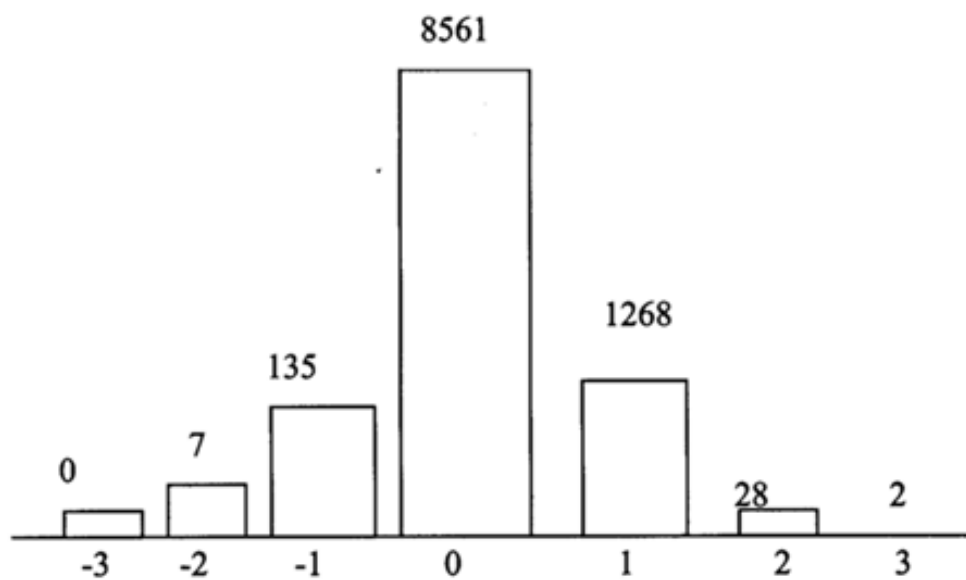
# Experiment 1:

(1). Set A-826PG Differential Mode, Gain=1

Input channel 0: CH0+ connect to CH0- then CH0 connect to A.GND.  
(Analog Ground)



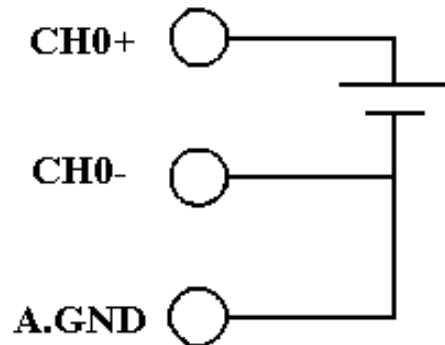
(2). Read Analog Input Channel 0 10,000 times given as follows



# Experiment 2:

(1). Set A-826PG become differential mode, Gain=1

Input channel 0: input voltage signal (We suggest to use battery signal)



(2). Read Analog Input Channel 0 10,000 times given as follows

