### **ADCs and DACs**

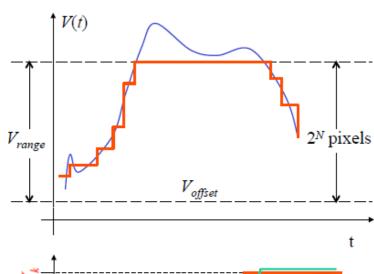
## > Sampling

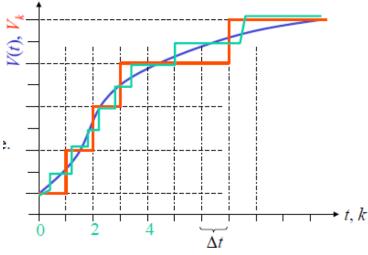
- *f*<sub>samp</sub> > 2*f*<sub>max</sub>
- Nyquist theorem

#### > Resolution

#### > Error

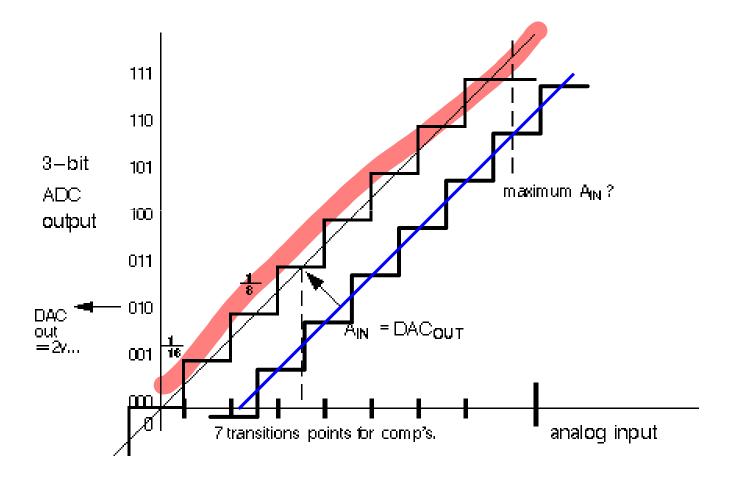
- Usually less than half the value of the LSB
- $10 \text{ bit} \frac{1}{2*1024} = 0.05\%$





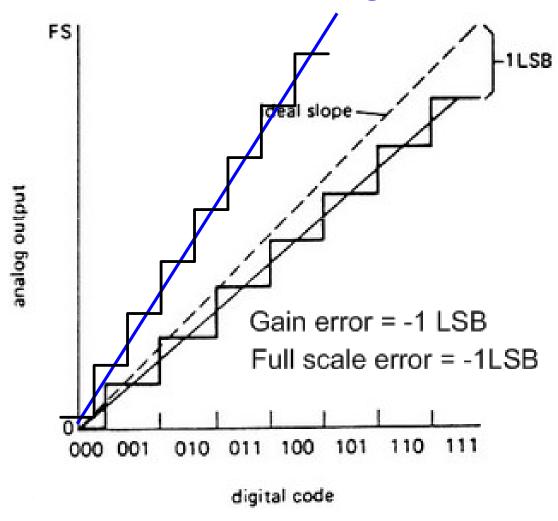


## **ADCs and DACs - Offset**





# **ADCs and DACs – gain error**





## ADCs and DACs - missing code

