

Table 1: ADU73 Configuration Word Worksheet

Table 2: ADU73 Resolution in Bits - Effective (p-p) Sample Rate

			1	2	3	4	5	6	7
Mode	1	Normal	Ratio-Metric 24(24) Absolute 24(23)	Ratio-Metric 24(22.4) Absolute 23.4(22.7)	Ratio-Metric 23.9(21.2) Absolute 23.2(20.2)	23.6(20.6) Absolute	Absolute	22.4(19.7) Absolute	Ratio-Metric 22.2(19.2) Absolute 21.9(18.8)

Command Summary:

WCnnnn - Resets A/D, configures A/D, initiates zero scale and full scale calibration

RC - Returns Present Configuration Number (4 bytes)

RD0 - Returns present reading of AN0. (8 bytes, 00000000-16777215, includes leading zeros)
- Returns present reading of AN0. (8 bytes, 00000000-16777215, includes leading zeros)

RD - Returns present reading of AN0 and AN1. (Two 8 byte numbers includes leading zeros, space (20H) delimiter)

SS -Start Stream SC -Cancel Steam

Note: Disabled channels return 00000000 regardless of input voltage level.

Fig 1: ADU73 Stream Packet Format

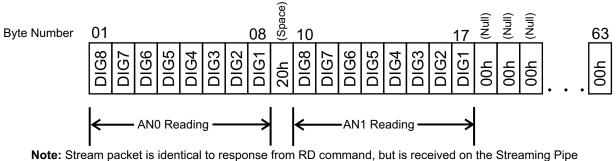
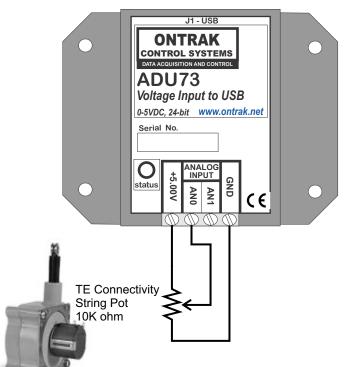


Fig 2: Typical Application Example



- **1. WC1210** configures for normal operation with a sample speed of 5Hz, AN0 enabled, AN1 disabled, for an effective resolution of 24 bits.
- **2. RD0** command returns reading from 00000000-16777215

Channel AN0 Voltage = ((reading/16777215) X 5.00)

Channel AN0 Percent FS = ((reading/16777215) X 100)

Reading is ratio-metric for best noise immunity.