

## Validyne CD17 Serial Protocol

### Assign USB Address

Host Command: >99123456XX

99 = Broadcast for Address Code (all units listen)

123456 = Six Digit CD17 Serial Number

XX = Address Assigned, 01 to 98

P61 Response: <XX123456

123456 = Six Digit Unit Serial Number

XX = Address Assigned, 01 to 98

### Host Commands

>XXC

Where: > Command Header (ASCII 3e)  
XX 2 digit USB address code, 0 to 99  
M Command Code  
G = Ping  
C = Model Data  
T = Temp Reading Request  
P = Pressure Reading Request

### P61 Responses

<XXM?\*value\*U

Where: < Data Response Header (ASCII 3c)  
XX 2 digit address code, 0 to 99  
M Command Identifier  
G = Ping  
C = Model Data  
? = Command Fails  
\* = Marker in string where value starts when value is returned  
U = Units F, mV/V  
T = Temperature Reading, Deg F  
Format: 0.0 F to 160.0 F  
  
P = Pressure Reading in mV/V

## Examples:

Host String: >01T (get temp reading)  
P61 Reply: <01T\*79.3\*F (temp of 79.3F returned)

Host String: >01T (get temp reading)  
P61 Reply: <01T? (temp reading offscale or not available)

Host String: >01P (get pressure reading)  
P61 Reply: <01P\*2.3\*m (pressure sensor reading of 2.3 mV/V returned)

Host String: >01P (get pressure reading)  
P61 Reply: <01P\*15.33\*m (pressure sensor reading of 15.33 mV/V returned)

Host String: >01P (get pressure reading)  
P61 Reply: <01P? (reading offscale)

Host String: >01C (get calibration and model data)  
P61 Reply: <01C\*CD17\*123456\*06-26-10\*40.0m

CD17 = Model Number  
123456 = serial number  
06-26-10 = calibration date  
40.0m = calibrated to +/-40.0 mV/V