Validyne P61 Serial Protocol

Assign USB Address

Host Command: >99123456XX 99 = Broadcast for Address Code (all units listen) 123456 = Six Digit P61 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
 - Z = Set P61 Zero if pressure reading within 10% of Zero
 - S = Set P61 Span if pressure reading within 10% of FS
 - G = Ping
 - C=Calibration & Model Data
 - T = Temp Reading Request
 - P = Pressure Reading Request
 - E = Enable Data Output at a user defined period. Allowable Range is

200msec to 6000msec.

D = Disable Data output

P61 Responses

<XXM?*value*U

Where:

< Data Response Header (ASCII 3c)

XX 2 digit address code, 0 to 99

- M Command Identifier
 - Z = Set P61 Zero
 - S = Set P61 Span
 - G = Ping
 - C = Calibration & Model Data
 - ? = Command Fails
 - * = Marker in string where value starts when value is returned
 - U = Units F, I or P
 - T = Temperature Reading, Deg F

Format: 0.0 F to 160.0 F

Examples:

Host String: P61 Reply:	<pre>>01Z (set zero at P61 USB address 01) <01Z (set zero successful) <01Z? (set zero not successful)</pre>
Host String: P61 Reply:	<pre>>01S (set span) <01S (set span successful) <01S? (Set span unsuccessful)</pre>
Host String: P61 Reply:	>01T (get temp reading) <01T*79.3*F (temp of 79.3F returned)
Host String: P61 Reply:	>01T(get temp reading)<01T?
Host String: P61 Reply:	>01P (get pressure reading) <01P*172.3*P (pressure reading of 172.3 PSID returned)
Host String: P61 Reply:	>01P (get pressure reading) <01P*15.33*I (pressure reading of 15.33 In H2O returned)
Host String: P61 Reply:	>01P(get pressure reading)<01P?
Host String: P61 Reply:	<pre>>01E200 (Enable Data output every 200msec) <01P*15.33*I (pressure reading of 15.33 In H2O returned)</pre>
Host String: P61 Reply:	>01D(Disable Data output)<01D
Host String: P61 Reply:	>01C (get calibration and model data) <01C*P61D5N932S4A*123456*06-26-10*2.000P
	P61D-5-N-9-32-S-4-A = Model Number 123456 = serial number 06-26-10 = calibration date 2.000P = calibrated FS, psid