

Validyne P368 Serial Protocol

Assign RS485 Bus Address

Host Command: >99123456XX

99 = Broadcast for Address Code (all units listen)

123456 = Six Digit P368 Serial Number

XX = Address Assigned, 01 to 98

P368 Response: <XX123456

123456 = Six Digit Unit Serial Number

XX = Address Assigned, 01 to 98

Host Commands

>XXM

Where: > Command Header (ASCII 3e)

XX 2 digit RS485 address code, 0 to 99

M Command Code

Z = Set P368 Zero - if pressure reading within 10% of Zero

S = Set P368 Span - if pressure reading within 10% of FS

G = Ping

C = Calibration & Model Data

T = Temp Reading Request

P = Pressure Reading Request

P368 Responses

<XXM?*value*U

Where: < Data Response Header (ASCII 3c)

XX 2 digit address code, 0 to 99

M Command Identifier

Z = Set P368 Zero

S = Set P368 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

P = Pressure Reading

-38 Range	0.00 to +/-8.00 Psid
-40 Range	0.00 to +/-12.50 Psid
-42 Range	0.00 to +/-20.00 Psid
-44 Range	0.0 to +/-32.0 Psid
-46 Range	0.0 to +/-50.0 Psid
-48 Range	0.0 to +/-80.0 Psid
-50 Range	0.0 to +/-125.5 Psid
-52 Range	0.0 to +/-200.0 Psid
-54 Range	0 to +/-320 Psid
-56 Range	0 to +/-500 Psid
-58 Range	0 to +/-800 Psid
-60 Range	0 to +/-1250 Psid
-62 Range	0 to +/-2000 Psid
-64 Range	0 to +/-3200 Psid
-66 Range	0 to +/-5000 Psid
-68 Range	0 to +/-8000 Psid
-70 Range	0 to +/-10,000 Psid

Examples:

Host String: >01Z (set zero at P368 RS485 address 01)

P368 Reply: <01Z (set zero successful)
<01Z? (set zero not successful)

Host String: >01S (set span)

P368 Reply: <01S (set span successful)
<01S? (set span unsuccessful)

Host String: >01T (get temp reading)

P368 Reply: <01T*79.3*F (temp of 79.3F returned)

Host String: >01T (get temp reading)

P368 Reply: <01T? (temp reading offscale or not available)

Host String: >01P (get pressure reading)

P368 Reply: <01P*172.3*P (pressure reading of 172.3 Psid returned)

Host String: >01P (get pressure reading)

P368 Reply: <01P*15.33*I (pressure reading of 15.33 In H2O returned)

Host String: >01P (get pressure reading)

P368 Reply: <01P? (reading offscale)

Host String: >01C (get calibration and model data)

P368 Reply: <01C*P368D1NX38S4A*123456*06-26-13*8.000P

P368D-1-N-X-38-S-4-A = Model Number

123456 = serial number

06-26-13 = calibration date

8.000P = calibrated FS, psid