**Transmitter ID: 104308**

(Preamble) (Sync) (Transmitter ID) (PSI) (Battery Status) (Checksum)

364psi 0010000001101110101101001110101110000010110110000001010111

350psi 0010000001101110101101001110101110000010101111000001011111

342psi 0010000001101110101101001110101110000010101011000001011011

0psi 0010000001101110101101001110101110000000000000000001000110

238 low pwr 0010000001101110101101001110101110000001110111001001010110

**Transmitter ID: 055872**

(Preamble) (Sync) (Transmitter ID) (PSI) (Battery Status) (Checksum)

266 psi 0010000001101001010101111001111100000010000101000001001011

266 psi 00 10000001 101001010101111001111100 000010000101 0000 01001011

266 psi 00 1000 0001 1010 0101 0101 1110 0111 1100 0000 1000 0101 0000 0100 1011

**Pattern**

00 - 01 Preamble 2 bits "00"

02 - 05 Sync1 "1000"

06 - 09 Sync2 "0001"

10 - 13 ID6 4 bits "1011" 1

14 - 17 ID5 4 bits "1010" 0

18 - 21 ID4 4 bits "1101" 4

22 - 25 ID3 4 bits "0011" 3

26 - 29 ID2 4 bits "1010" 0

30 - 33 ID1 4 bits "1110" 8

34 - 45 Pressure (PSI/2) 12 bits unsigned integer 0 to 5000 PSI

46 - 49 Battery 4 bits 0000 Good / 0010 Low / 0001 Critical

50 - 57 Checksum 8 bits (unsigned sum of previous 12 nibbles)

**(Preamble)**

Start bits (‘00’)

**(Sync)**

Sync bits, 2 nibbles 1000, 0001

**(Transmitter ID)**

Tx Serial Code Digit via lookup table

Digit Tx Code

0 1010

1 1011

2 1100

3 0011

4 1101

5 0101

6 0110

7 0111

8 1110

9 1001

**(Pressure)**

Pressure is PSI/2 encoded as 12 bits unsigned integer 0 to 5000 PSI

**(Battery)**

Bits signal battery status, good, low, critical

0000 Good

0010 Low

0001 Critical

**(Checksum)**

Ignore the first 2 digits (‘00’)

Break the rest of the message into 12 nibbles (4 bit segments), leaving the last 8 bits

Sum the nibbles to calculate the checksum, place the checksum into the last 8 bits

Maximum checksum value is 10110100 (or 180 decimal)