Transmitter ID: 104308

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

364psi 00100000011011101011010011101011100000101101100000 01010111

350psi 00100000011011101011010011101011100000101011110000 01011111

342psi 00100000011011101011010011101011100000101010110000 01011011

0psi 00100000011011101011010011101011100000000000000000 01000110

238 low pwr 00100000011011101011010011101011100000011101110010 01010110

Transmitter ID: 055872

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

266 psi 00100000011010010101011110011111000000100001010000 01001011

266 psi 00 10000001 10100101010111100111110 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)