Question –

How do you decode the data packet from a Hydreka Type C2 transmitter

Answer –

The data packet can be decoded as follows;

```
20120921133417C21F0248A80102CF800000000F000001000000000003000000000000000000
000072CD
```

```
20120921   Date (yyyymmdd)
133417     Time (hhmmss)
C2         Transmitter type
1F         No. of bytes following (excluding CRC)
02         Firmware revision

48         Status flags: Bit 7: Low battery
                         Bit 6: Tamper active
                         Bit 5: Reed switch active
                         Bit 4: Reverse flow
                         Bit 3: Contact closed
                         Bit 2: Not used
                         Bit 1: Not used
                         Bit 0: Not used

A8         High nibble: RSSI (signal strength)
           Low nibble:  Incrementing message counter

01         Customer code
02CF80     Address (3 bytes, high byte 1st)
0000000F   Forward pulse count (4 bytes, high byte 1st)
000001     Reverse pulse count (3 bytes, high byte 1st)
0000       Min. forward flow per 15min (2 bytes, high byte 1st)
0000       Max. back flow per 15min (2 bytes, high byte 1st)
0003       Max. forward flow per 15min (2 bytes, high byte 1st)
0000       No. of pulses between hr = 0 & hr = 1 (2 bytes, high byte 1st)
0000       No. of pulses between hr = 1 & hr = 2 (2 bytes, high byte 1st)
0000       No. of pulses between hr = 2 & hr = 3 (2 bytes, high byte 1st)
0000       No. of pulses between hr = 3 & hr = 4 (2 bytes, high byte 1st)
0000       No. of pulses between hr = 4 & hr = 5 (2 bytes, high byte 1st)
00         No. of times direction changed
72CD       CRC (2 bytes, low byte 1st)
```

Document History:

Edition	Date of Issue	Modification	Notes
1st			