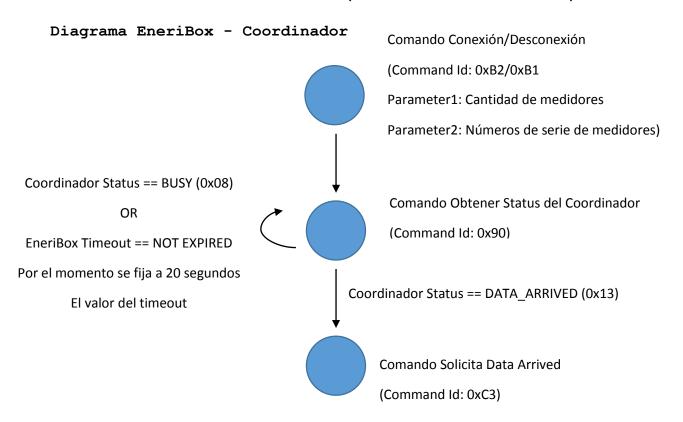
I. REMOTE METER GROUP TURN ON/OFF RELAY PROCESS 0xB2/0xB1



Ejemplo conectar 3 medidores en grupo de forma remota (Command Id 0xB2):

1. Comando enviado desde EneriBox hacia Coordinador

Start Of Frame: 55 cc Frame Len: 3A 00

Coordinator MAC Address: 79 08 09 01 0a b6 da 24

Command Id: B2 = Command id solicita conexión en grupo de medidores Number of Meters: 03 (Desde 1 hasta N Siempre y cuando pertenezcan al

mismo gabinete)

.

CRC of Frame: 03 9f (Necesita ser calculado, el valor de este ejemplo es

representativo) End of Frame: 33 cc

2. Comando enviado desde Coordinador hacia EneriBox

Receiving: 19 bytes-> [55 cc 0a 00 79 08 09 01 0a b6 da 24 <mark>B2 01</mark> 8a 2f 33 cc]

Start Of Frame: 55 cc

Frame Len: 0a 00

Coordinator MAC Address: 79 08 09 01 0a b6 da 24

Command Id: B2 = Command id solicita conexión en grupo de medidores
Response: 01 Comando se ha recibido satisfactoriamente (Cualquier valor

diferente es ERROR)

CRC of Frame: 8a 2f (Necesita ser calculado, el valor de este ejemplo es

representativo) End of Frame: 33 cc

3. Comando enviado desde EneriBox hacia Coordinador

Sending: [55 cc 09 00 79 08 09 01 0a b6 da 24 90 18 cb 33 cc]

Start Of Frame: 55 cc

Frame Len: 09 00

Coordinator MAC Address: 79 08 09 01 0a b6 da 24

Command Id: 90 = Command id solicita el status de coordinador

CRC of Frame: 18 cb End of Frame: 33 cc

4. Comando enviado desde Coordinador hacia EneriBox

Receiving: 18 bytes-> [55 cc 0a 00 79 08 09 01 0a b6 da 24 <mark>90 </mark>13 8b 0b 33 cc]

Start Of Frame: 55 cc

Frame Len: 0a 00

Coordinator MAC Address: 79 08 09 01 0a b6 da 24

Command Id: 90 = Command id solicita el status de coordinador

Response: $\frac{13}{13} = DATA_ARRIVED (0x08 COORDINATOR IS BUSY)$

CRC of Frame: 8b 0b End of Frame: 33 cc

5. Comando enviado desde EneriBox hacia Coordinador

Sending: [55 cc 09 00 79 08 09 01 0a b6 da 24 C3 58 b2 33 cc]

Start Of Frame: 55 cc

Frame Len: 09 00

Coordinator MAC Address: 79 08 09 01 0a b6 da 24 Command Id: C3 = Command id solicita data arrived

CRC of Frame: 58 b2 End of Frame: 33 cc

6. Comando enviado desde Coordinador hacia EneriBox

```
18 00 00
00 00 00 00 00 00 80
                              ff
                                    ff
        20 00 ff
                   ff
                      ff
                            2f
                              ff
                                    7d 8e
                                         70
                         1a
                                            1d
                           30
                                            30
  79 00 00 00 48
                      33 38
                              32
                                 30 30
                                      30
                                         30
                                               30
                   6b 00 00 00 00
           ff ff ff
                                 00 00 00 80
                                            18 00 00 ff
           ff ff
                      ff ff ff
                              20
                                 00
                                   ff
                                      ff ff
1d ff ff ff ff ff
                         79 00
                              00
                                 00
                                    48
                                      51 38
30 30 30 30
          30 30 30
                      ff ff
                           ff
                              ff
                                 ff
                                    ff
                                      ff
                                         6b 00
                                               00 00
                                                    00 00
18 00 00 ff ff ff ff ff ff ff
                              ff
                                 ff ff ff ff ff
                                               ff ff
                                                    20 00 ff
ff la 2f ff ff 7d 8e 70 ld ff ff ff ff ff ff ff 79 00 00 00 48 51 c9
Start Of Frame: 55 cc
Frame Len: 5a 00
Coordinator MAC Address: 79 08 09 01 0a b6 da 24
Command Id: C3
Error Code Response: 01 Satisfactorio (Cualquier valor diferente es
ff
                                                        ff
                                                        7d
  ff ff ff ff ff
                ff
                      79 00 00 00
                                 48
                                    51
                                      37
                                          33
30 30 30 30 30 ff
                   ff ff ff
                           ff
                              ff
                                 ff
                                    ff 6b 00
                                            00 00 00 00
        ff ff ff ff
                      ff ff
                           ff
                                    ff
00 00 ff
                              ff
                                       ff
                                                  20
                      ff ff ff
        ff 7d 8e 70
                                    ff
                   1d
        30 30 30 30
                      30 30 30
                                    30 ff ff
38 30 32
                   30
                              30
                                 30
00 00 00 00 00 00 80 18 00 00 ff
                                               ff ff
                              ff
                                 ff ff ff ff
                                            ff
                                                     ff
ff ff 20 00 ff ff ff ff 1a 2f ff ff 7d 8e 70 1d ff ff ff ff ff ff ff ff
79 00 00 00 48 51
CRC of Frame: c9 2b
End of Frame: 33 cc
```

Observación: Data Response es un cast de cada DataReading por medidor en este ejemplo se conectaron 3 medidores.

```
Number of Meters: 03
Meter Serial Number: 36 33 38 30 32 30 30 30 30 30 30 30 30 30 30 30
Active Energy C: ff ff ff ff
                  ff ff ff ff
6b 00 00 00
Active Energy B:
Active Energy A:
                  00 00 00 00
Active Power:
                  80 18 00 00
FLAG:
                  ff ff
DELTA Reactive:
                  ff ff
DELTA Active:
Index Con:
                  ff ff ff ff
Roller Demand:
                  ff ff
Power Factor:
Current C:
                  ff
Current B:
                  20 00
Current A:
                     ff
Voltage C:
Voltage B:
                     ff
                  1a 2f
Voltage A:
                  ff
Frequency:
Timestamp:
                  7d 8e 70 1d
Total Negative Active Energy: ff ff ff ff
```

```
Total Negative Reactive Energy: ff ff ff ff
Total Reactive Energy:
Meter CRC Frame: 48 51
Active Energy B: ff ff ff
Active Energy A: 6b 00 00 00
                00 00 00 00
Active Power:
                80 18 00 00
FLAG:
               ff ff
ff ff
ff ff
ff ff ff ff
DELTA Reactive:
DELTA Active:
Index Con:
Roller Demand:
Power Factor:
               ff ff
Current C:
               ff ff
Current B:
Current A:
               20 00
               ff ff
Voltage C:
               ff ff
Voltage B:
               1a 2f
Voltage A:
              ff ff
7d 8e 70 1d
Frequency:
Timestamp:
Total Negative Active Energy:
                             ff ff ff ff
Total Negative Reactive Energy: ff ff ff ff
Total Reactive Energy:
                            79 00 00 00
Meter CRC Frame: 48 51
Active Energy A: 6b 00 00 00
               00 00 00 00
Active Power:
                80 18 00 00
FLAG:
               ff ff
DELTA Reactive:
               ff ff
DELTA Active:
               ff ff
Index Con:
               ff ff ff ff
Roller Demand:
               ff ff
ff ff
ff ff
Power Factor:
Current C:
Current B:
               20 00
Current A:
               ff ff
Voltage C:
               ff ff
Voltage B:
               1a 2f
Voltage A:
               ff ff
7d 8e 70 1d
Frequency:
Timestamp:
Total Negative Active Energy:
                             ff ff ff ff
Total Negative Reactive Energy: ff ff ff ff
Total Reactive Energy:
                             79 00 00 00
Meter CRC Frame: 48 51
```

Ejemplo desconectar 3 medidores en grupo de forma remota (Command Id 0xB1):

Se utiliza command id 0xB1 en los puntos 1 y 2 del ejemplo anterior.