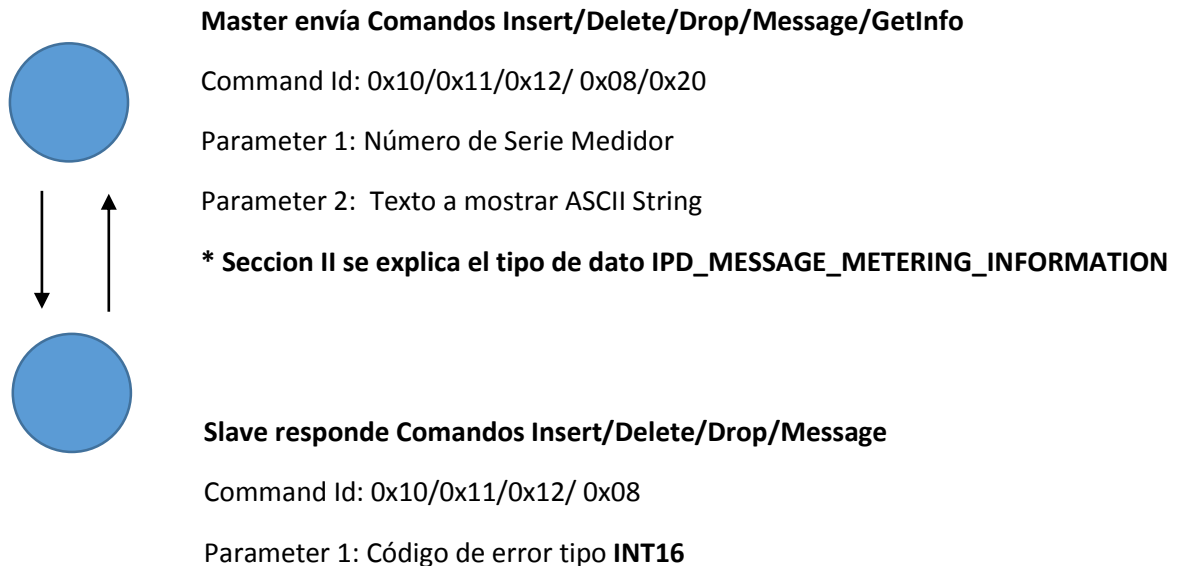


## I. Diagrama: METERING MESSAGE DISPLAY CONTROL PROCESS

### Diagrama Master (EneriBox) – Slave (Display)



## II. Communication Protocol

<b>Start Of Frame (2 Bytes)</b>	<b>Siempre es el valor 0x55cc</b>
<b>Frame Len (2 Bytes)</b>	Longitud de la trama calculada desde el registro MACAddress hasta justo antes del registro CRC.
<b>Slave MAC Address (8 Bytes)</b>	MAC Address en formato Little-endian.  Ejemplo: 79 08 09 01 0a b6 da 24
<b>Command Id (1 Byte)</b>	Cualquier Commando que sea válido
<b>Data (n Bytes)</b>	Parametros de cada comando
<b>CRC of Frame (2 Bytes)</b>	Necesita ser calculado a partir del registro <b>Slave MAC Address hasta el último BYTE del registro Data.</b>
<b>End of Frame (2 Bytes)</b>	<b>Siempre es el valor 0x33cc</b>

### III. Tipo de Datos

```
typedef struct {  
  
    BYTE meterSerialNumber[IPD_MESSAGE_METERING_METER_SERIAL_NUMBER_SIZE];  
    BYTE message[IPD_MESSAGE_METERING_MAX_STRING_SIZE];  
  
}IPD_MESSAGE_METERING_INFORMATION, * IPD_MESSAGE_METERING_INFORMATION_PTR;
```

### IV. Commandos

- a. **INSERT\_MULTIPLE\_METER\_ITEMS\_BY\_SERIAL\_NUMBER 0x10** (Up to 24 Registers)

Master Request	
CommandId :	0x10
Parameter 1:	Número de serie (16 Byte)
Parameter 2:	Text to Display (ASCII String) según <b>APÉNDICE D Tabla de Parámetros en Display pag 101-105 de la NORMA G0100-05</b>  * MAX 255 Bytes per String

Slave Response	
CommandId :	0x10
Parameter 1:	Error Code (INT16)  * 0x0000 Command Executed Successfully

- b. **DELETE\_MULTIPLE\_METER\_ITEMS\_BY\_SERIAL\_NUMBER 0x11** (Up to 24 Registers)

Master Request	
CommandId :	0x11
Parameter 1:	Número de Serie (16 Byte)

Slave Response	
CommandId :	0x11
Parameter 1:	Error Code (INT16)  * 0x0000 Command Executed Successfully

**c. DROP\_METER\_TABLE 0x12**

Master Request	
CommandId :	0x12
Parameter 1:	None

Slave Response	
CommandId :	0x12
Parameter 1:	Error Code (INT16) * 0x0000 Command Executed Successfully

**d. SET\_CUSTOM\_SCROLL\_MESSAGE 0x08**

Master Request	
CommandId :	0x08
Parameter 1:	Timeout (in seconds) (4 Bytes)
Parameter 2:	Text to Display (ASCII String)  * MAX 255 Bytes per String

Slave Response	
CommandId :	0x08
Parameter 1:	Error Code (INT16)  * 0x0000 Command Executed Successfully

**a. GET\_INFO 0x20**

Master Request	
CommandId :	0x20
Parameter 1:	None

Slave Response	
CommandId :	0x20
Parameter 1:	Error Code (INT16) * 0x0000 Command Executed Successfully
Parameter 2:	Firmware Version "XXYYZZ" (3 Bytes) <ul style="list-style-type: none"><li>• XX : Version in Byte format 0xFF</li><li>• YY: Revision In Byte format 0xFF</li><li>• ZZ: Fix in Byte format 0xFF</li></ul> CFE SerialNumber "ABCDEF" in String Format (6 Bytes)