

GS150 RS232 Interface Commands

The GS150 can be controlled via an RS232 interface. The connector is a female DB9 with Pin 2 TX out, Pin 3 RX in and Pin 5 ground. The serial settings are 9600 baud, 8 data bits, 1 stop bit, no parity and no handshaking.

All commands are shown in the table below. The unit echoes back all characters as they are received. A command line is terminated with a line feed (0x0A). Carriage returns may be present (0x0D) and are ignored. Commands that take numerical values as a parameter are shown as minimum and maximum values between parentheses, i.e. the meter light level (1 to 3). Commands ending in a question mark are status inquiries; they will return the current value of the requested item.

If a command is accepted the response will be ACK --> along with either an echo of the request or the current value.

If a command is not accepted the response will be NACK-> along with an echo of the request.

All responses are terminated with carriage return and linefeed (0x0D 0x0A).

The response may be multiline for some status requests.

After the POWER ON command is issued the unit will be in warm up.

When the unit is in the POWER OFF mode some commands will return NACK-> as they cannot be performed when the unit is off.

As the input buffer is small commands should only be sent one at a time.

Below is a table of all commands:

RS232 Command	Action
POWER ON	Turns on the unit
POWER OFF	Turns off the unit
POWER TOGGLE	Toggles the power state
METER LIGHTS OFF	Sets meter light value to 0.
METER LIGHTS ON	Sets meter light value to 1.
METER LIGHTS SET (1 to 3)	Set the display to the specified value, 1 is OFF, 2 dimmest, 3 brightest
METER LIGHTS HIGH	Sets meter light value to 3.
SET FACTORY DEFAULTS	Restores the remembered settings to the factory default values. Meter light=1.
STATUS ALL ?	Returns the status of the all the settings.
POWER ?	Returns the power state

METER LIGHTS ?	Returns the meter brightness setting
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Sent on initial AC power application to unit:

```
GS150 Power On Reset, Version 1.00  
STATUS ALL  
POWER OFF  
METER LIGHTS 4
```

Example of some commands and responses:

```
POWER ?  
ACK--> POWER ON
```

```
METER LIGHTS ?  
ACK--> METER LIGHTS 1
```

An Invalid request, no space between ALL and ?:

```
STATUS ALL?  
NACK-> STATUS ALL?
```

Multiline responses:

```
STATUS ALL ?  
ACK--> STATUS ALL  
POWER OFF  
METER LIGHTS 4
```