

## NAME

setsn – Field program a readerboard or busylight device

## SYNOPSIS

**setsn** [**-addr** *addr*] [**-force**] [**-global** *addr*] **-port** *path* [**-reset**] [**-rs485** *rate*] [**-sn** *serialno*] [**-speed** *rate*] [**-usb** *rate*]

## DESCRIPTION

After flashing a new firmware image onto a new Readerboard or Busylight device, use this program to configure a unique serial number into its EEPROM, or as needed to configure its addresses and communication speeds.

## OPTIONS

### Operational Parameters

These options control the overall operation of **setsn**.

**-force** Normally, **setsn** will display a description of the target device (obtained by probing the device itself), and then ask the user to confirm if you want to proceed to alter that device's configuration. If the **-force** option is given, **setsn** will proceed to make the changes without asking.

**-port** *path*

Specify the device name (e.g., */dev/ttyACM1*) where the target device is plugged in to the host computer.

**-speed** *rate*

Sets the baud rate with which we will communicate with the target device. (Default=9600 baud.)

### Device Settings

Specify one or more of these to make changes to the device's configuration.

**-addr** *addr*

Set the device's RS-485 device ID. This must be unique on the network of connected devices, and must not be the global address. This is an integer in the range 0–63, or –1 (the default) if you want to disable the RS-485 port entirely and assign no ID number at all to this unit.

**-global** *addr*

Set the device's RS-485 global ID which all devices will respond to. This must be the same as the global ID configured for all other connected devices. It is an integer in the range 0–15 (default=15).

**-reset** Reset the addresses and baud rates to their defaults. If this option is given along with other options that set those parameters, the **-reset** is done first.

**-rs485** *rate*

Change the device's RS-485 interface to run at the specified baud *rate*.

**-sn** *serialno*

Set the device's serial number to the specified string. This should be alphanumeric and up to six characters long. Serial numbers **B00000–B00299** and **RB0000–RB0299** are reserved for use by the original author.

**-usb** *rate*

Change the device's USB interface to run at the specified baud *rate*.

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