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SF02, SF10, SF30 Additional Setup Instructions

1. Connecting Your Laser Rangefinder

- Install Lightware Terminal 1.0.7
 - o http://www.lightware.co.za/shop/en/content/8-software
- Plug your USB A side of cable to your computer, and Micro B cable side to your Laser Rangefinder USB port
- Launch the LightWare Terminal
- Click the connect button •
 - Connected notification will appear on the terminal
- Hit the spacebar key on your keyboard to access your Laser Rangefinder setting menu. •

2. Navigating the LightWare Terminal

Now that you are connected to your Laser Rangefinder and have access to the settings menu, follow these instructions to set the device.

- a) Setting up your SF02
 - The SF02 #28043 example code provided on our Parallax Website requires the Serial Port Baud Rate to be set to 9600. You can achieve that by pressing the "I" key on your keyboard until the desired baud rate is achieved, as shown below.

Laser GPS	phtware Terminal 1.0.7		
	connect Save Log Clear	¢[¢] ⊘ Laser GPS	
	nected to COM38		
	SF02 Rev:3.0 SN:3109 ***		
	ero datum offset 0.00 m		
	mooth output OFF		
	nalog 3.3 V distance 33.00 m		
	nalog 0.0 V distance 0.00 m		
	llarm 1 distance 4.00 m llarm 2 distance 5.00 m		
	larm 3 distance 5.00 m		
	darm hysteresis 0.05 m		
	erial port baud rate 9600		

1.1 SF02 settings menu

b) Setting up your SF10

• The SF10 #28053 example code provided on our Parallax Website requires the Serial Port Baud Rate to be <u>set to 9600</u>. You can achieve that by pressing the "C" key on your keyboard until the desired baud rate is achieved, as shown below.

🌻 Lightware Tr	erminal 1.0.7					00
C Discennect	Save	Log	O Clear	Å	Ø gps	
Connected t	o COM128					
a: Zero da b: Smooth c: Serial d: I2C bus e: Analog f: Analog	tum offse output port baud address. distance voltage r	rate range	0.00 m OFF 9600 0x55 0.00 m to 0.00 V to	2.56 V	51.20 m = 2.56 V	Ť.

1.2 SF10 settings menu

c) Setting up your SF30

Please refer to the code notes for setting your SF30 #28057 to <u>specific setting</u> values as required by the code. Hit "spacebar" on your keyboard to access the SF30 settings, see the screen capture below.

🛑 Lightware Terminal 1.0.7		- 3 -
Disconnect Save Log	Olear Laser GPS	Ille lightware
Connected to COM117		
*** SF30 ***		•
3: Serial port update rate 4: Serial port baud rate 5: Analog port update rate 6: Analog maximum range 7: Alarm activation distance 8: Alarm latch	Off 30 / sec (actual - 30 / sec)	
		•

1.3 SF30 settings menu

- Press 1 key on your keyboard to set the *active data port*
- To access the Serial port, select Serial
 - i. To access the USB port, select USB
- Press 2 to set the *snapshot resolution*
 - i. Keep pressing 2 until you reach your desired snapshot resolution
- Press 3 to set the *update rate*
 - i. Type the desired update rate (see notes)
- Press 4 to set the *serial port baud rate*
 - i. Keep pressing 4 until you reach the desired baud rate (see notes)
- After you are done setting your SF30, Use the spacebar to run the serial port, as shown in the screen capture below

Lightware Terminal 1.0.7		
isconnect Save Log	Clear Laser GPS	Ill lightware
nnected to COM117		
Press «space» to ru	n	*
*** SF30 ***		
1: Active data port	Serial	
	0.03 m	
4: Serial port baud rate	1144 / sec (actual = 1144 / sec) 38400	
	10 / sec (actual = 10 / sec)	
6: Analog maximum range	8 m	
7: Alarm activation distant	e 7.00 m	
8: Alarm latch	off	
9: USB port update rate	30 / sec (actual = 30 / sec)	
Press <space> to ru</space>	n	7
erial port running		
and part runningers		

1.4 SF30 Serial port settings

Note: If using 9600 baud rate for your application, make sure you lower your update rate to 286; or a "baud rate too low" error will show up.

Note: The SF30 saves the settings for the future usage. If the last opened port is a USB port, make sure you change the active data port to serial to run the serial port.