

d-HID → LS-6G DIG



Functionality:

A simple device to re-transmit the RS232 signal from an ESS HID cell to an RS485 signal with YieldPoint's d-Tech ecosystem.



sales@yieldpoint.com



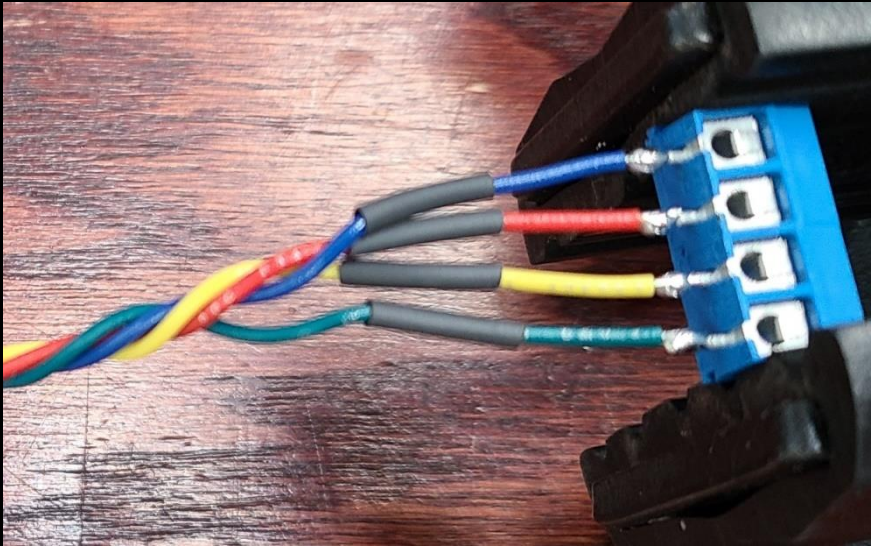
+1-613-531-4722



Wiring: Step 1 Hook-up the HID

The HID cell leadwire is passed through the gland on the d-HID enclosure and connected to the internal terminal block.

Terminal Block	Conversion Board
Red wire	Exposed section of the red wire connecting to "+V"
Black wire	Exposed section of the black wire connecting to "GND"
Yellow wire	RX
Green wire	TX

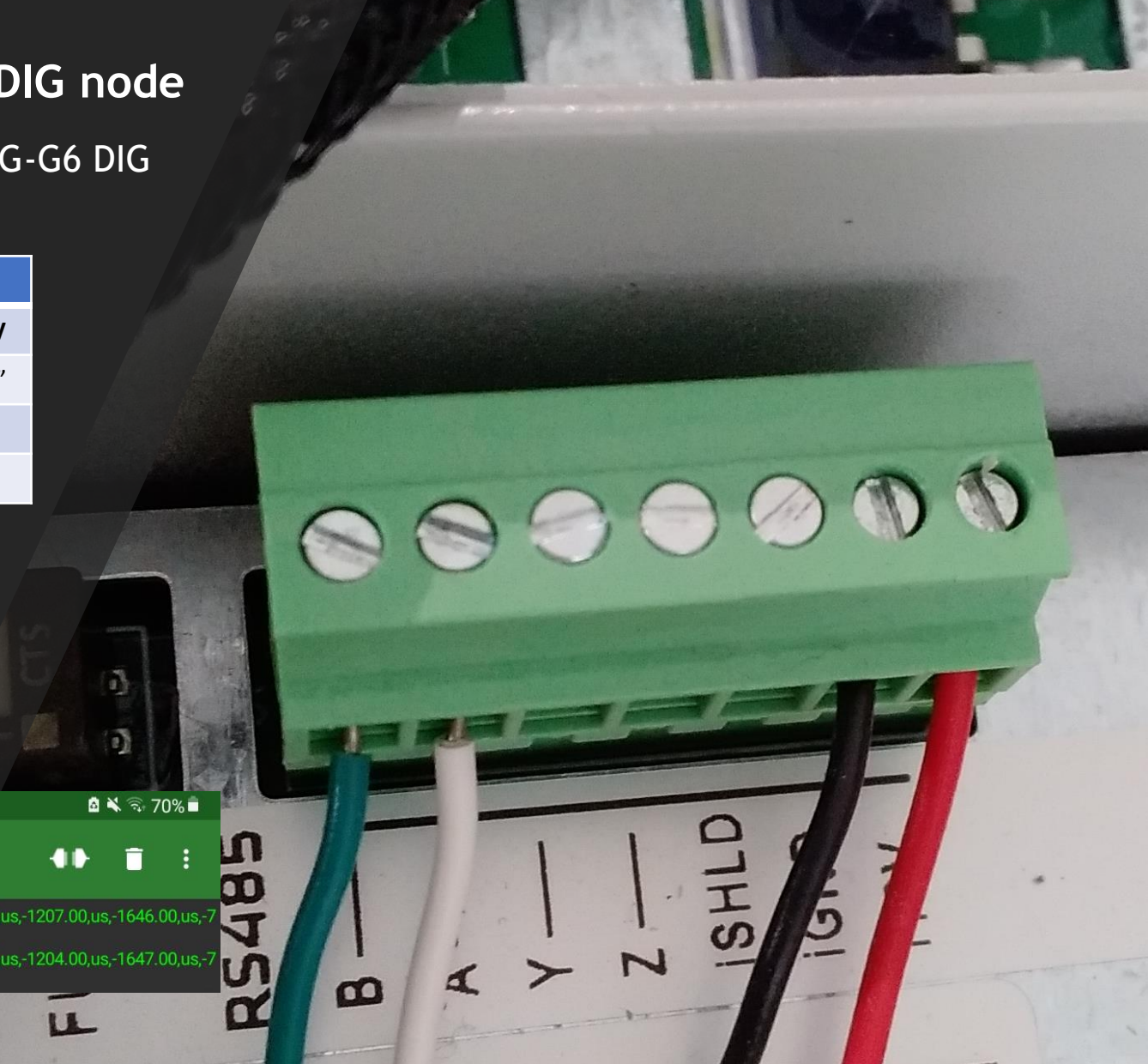
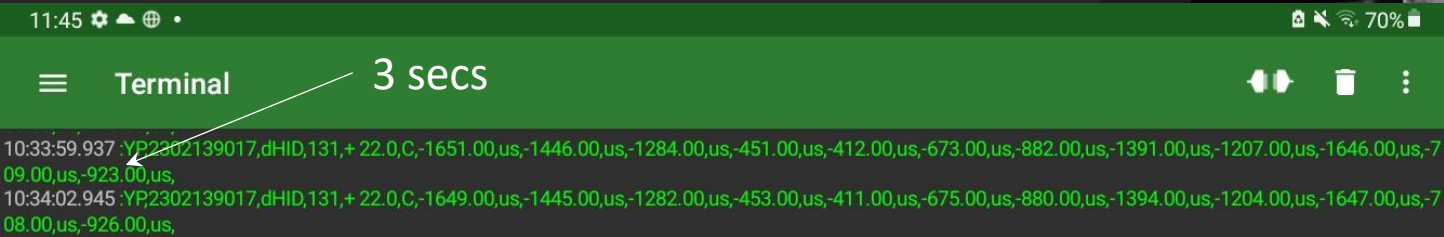


Wiring: Step 2 Hook-up d-HID to the LS-G6-DIG node

Pass the d-HID RS485 wire through the gland in the on LG-G6 DIG node and connect to the RS485 port of the LS-6G-DIG.

RS485 leadwire	WS Node terminal Block
Red wire	Exposed section of the red wire connecting to “+V” 12V
Black wire	Exposed section of the black wire connecting to “IGND”
White Wire	A
Green wire	B

The serial RS485 signal is 9600,8,N,1 and is an ASCII encoded string. The signal takes around 3secs to scroll and repeatedly scrolls while power is applied.



The YieldPoint ID

Each d-HID is assigned a unique ID number during manufacturing.

22	07	13	9	066
Year	Month	# of channels 1xTemp. 12xStrain	Sensor type	Device serial #
2-digit	2-digit	2- digit	1-digit	3-digit

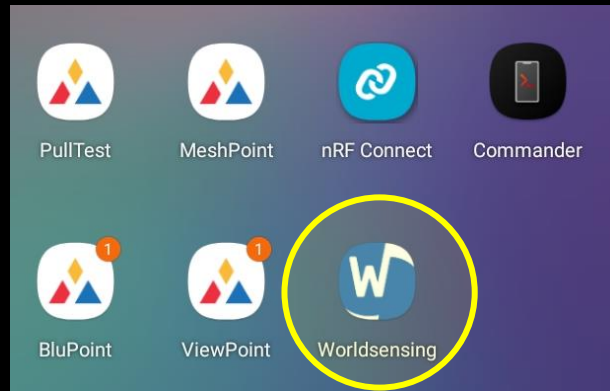
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1  /*
2   * YieldPoint HID Cell Converter
3   *
4   * Enter ID in the YP_ID field and recompile
5   *
6   */
7
8  #include <stdio.h>
9  #include <stdlib.h>
10 #include <string.h>
11 #include <SI_EFM8BB2_Register_Enums.h>
12
13
14 #define YP_ID "2207139066"
15
16
17 #define SYSCLK 24500000 //System clock frequency in Hz
18
19 void SiLabs_Startup(void)
20 {
21     // Disable the watchdog here
22 }
23
24 void init(void)
25 {
26     uint8_t TCON_save;
27     uint8_t TMR3CN0_TR3_save;

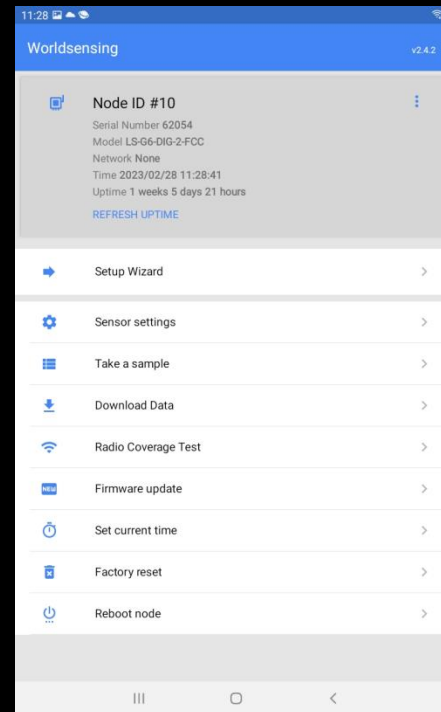
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Take a Reading with LS-G6-DIG

Step 1: Install and Open the Worldsensing App



Step 2: To test take a sample



The Reading:



Electrical Specifications

Power: 5-16VDC

Current: 65mA max when connected to HID cell

58mA max HID cell

7mA d-HID

Duration: <5secs / reading

RS485: 9600,8,N,1

Temp: -40C85C

