

HS20 to RCU10 signal strength cable - including PC connection

Overview

Laser signal strength monitoring functionality through the RCU-CS software (version 2.0.3 or later) is only available when using an HS20 laser that is wired into the RCU10 sensor network. This document will guide you through the process of achieving this.

There are 3 stages required:

- Stage 1 - connection between the HS20 and RCU10
- Stage 2 - connection between the RCU10 and PC
- Stage 3 - RCU-CS software setup

After completion of the 3 stages, you will be able to view signal strength through the RCU-CS software as shown in Fig 1:

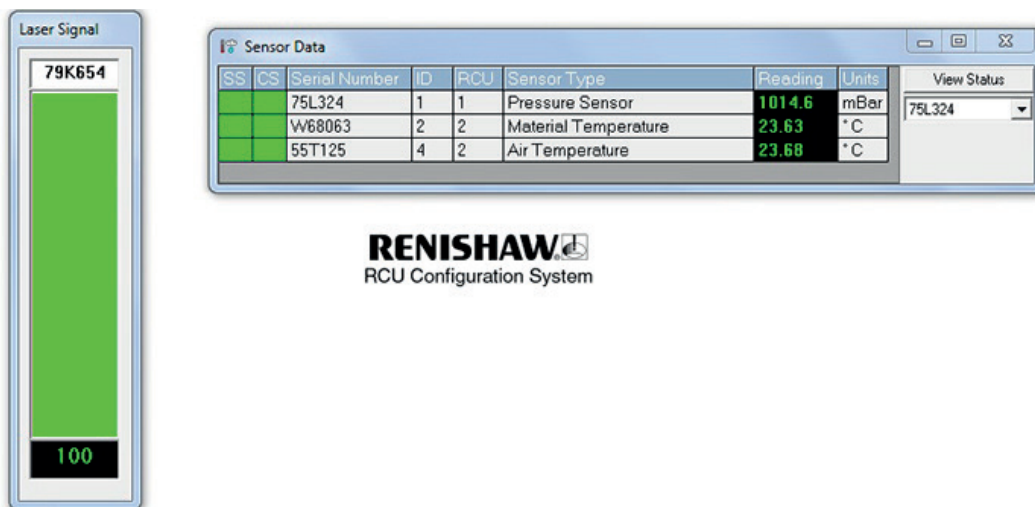


Fig 1

Stage 1 - Connection between the HS20 and RCU10

Fig 2 shows the connection configuration between an HS20 and RCU10:

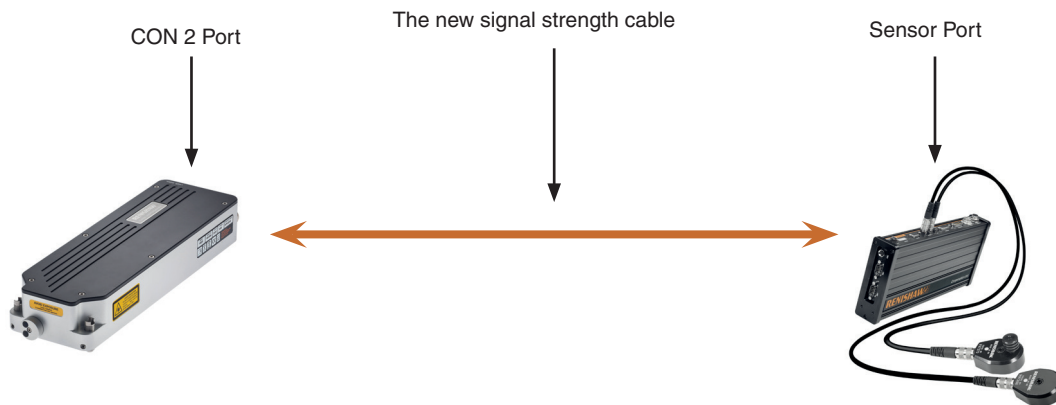


Fig 2

Required items:

- 1 x A-9904-1636 Transmitter cable connector kit
- 1 x A-8003-2364 Connector kit
- 2 Core cable
- 1 x RCU10-DB-XX Sensor distribution block

Below is a table showing the wiring configuration for a signal strength cable from an HS20 to an RCU10:

RCU10 4way binder		Signal strength cable	HS20 AX 9way connector	
Pin	Purpose		Purpose	Pin
1	/Data	←→	/Status	8
4	Data	←→	Status	7

Stage 2 - Connection between RCU10 and PC

Fig 3 shows the connection configuration between an RCU10 and a PC:

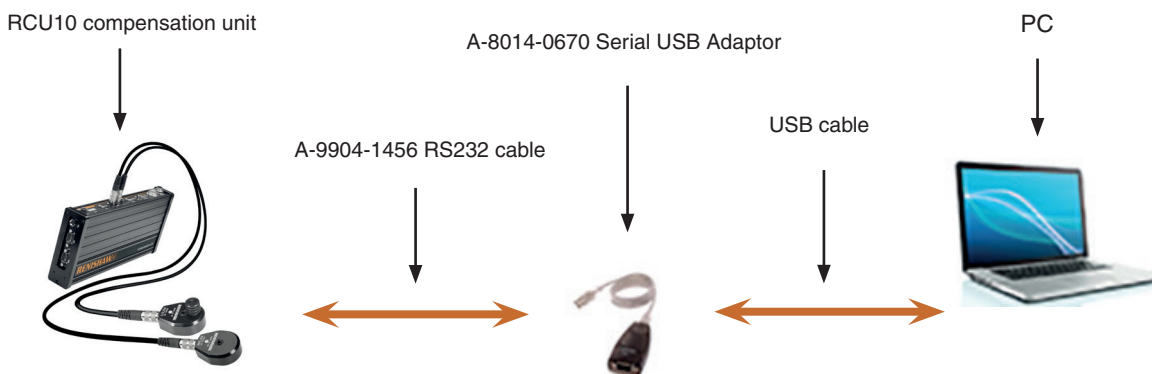


Fig 3

Stage 3 - RCU-CS software setup

Configure the RCU10 by adding the HS20 laser head as a sensor into the RCU10 network. Details on how to do this can be found within section '4.2.2 sensor network configuration' in the 'RCU10 installation user guide'.

PC display: Pressing the sensors button on the RCU CS software displays the sensor overview screen as seen in Fig 4:

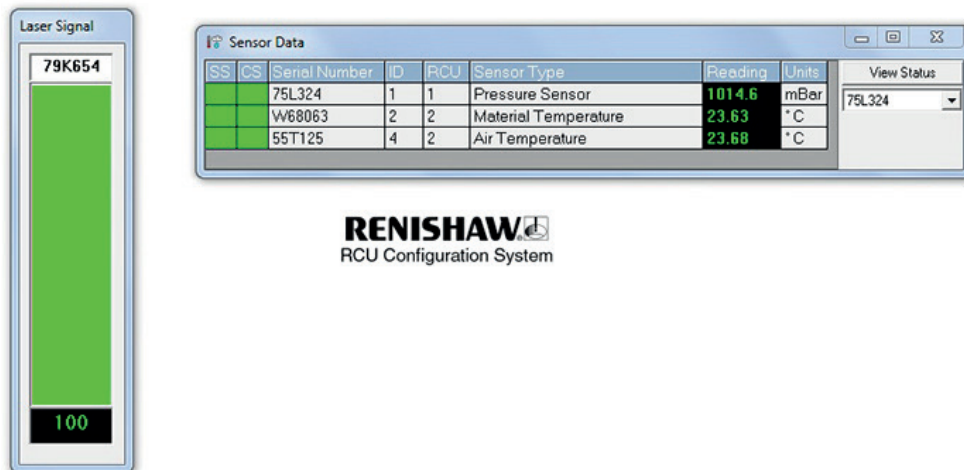


Fig 4

This displays an overview of all sensors configured in the RCU10 network, operational and communication status, as well as real-time display of the reported readings.

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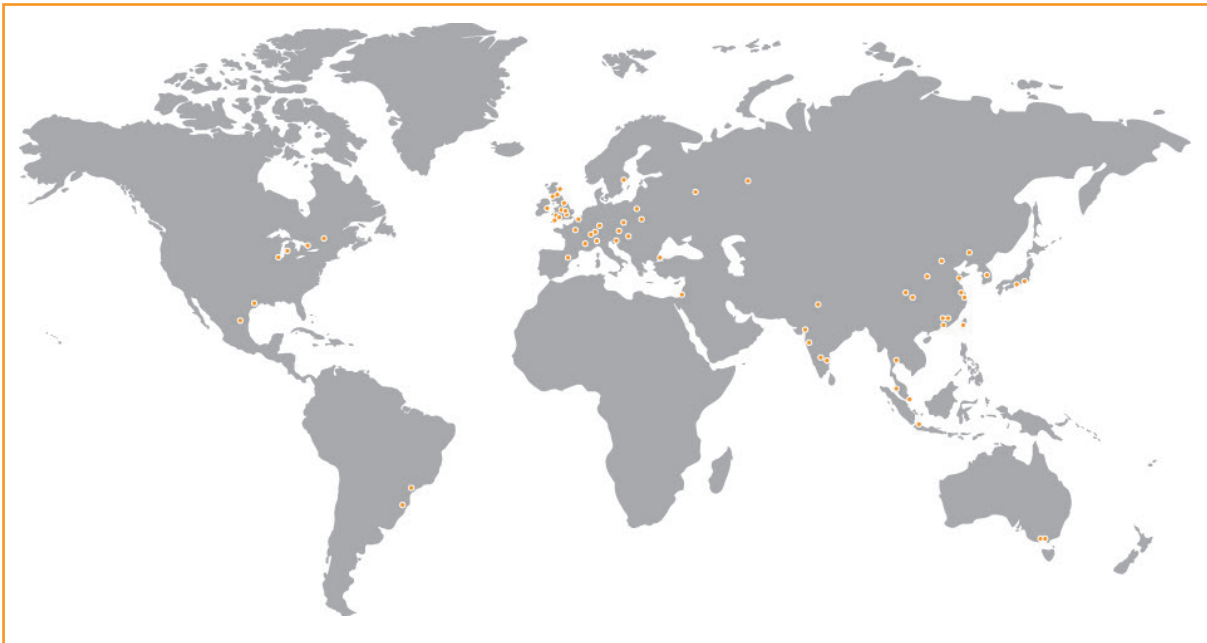
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