

SCOUT200 version 22.1 [June 2022]



Bently Nevada is pleased to present the v22.1 release of the SCOUT200 SI Collector App, with these new capabilities:

What's New: SCOUT200 v22.1

CONFIGURE 2 CHANNELS FOR DUAL PLANE BALANCING

FIXED POSITIONS MODE FOR WEIGHT POSITIONS

CH2 DISPLAYED FOR INITIAL, TRIAL, BALANCE & TRIM

LIST OF ALL BALANCE JOBS. RE-LOAD TO VIEW, REPORT, RESUME.

Bently Nevada remains focused on delivering the world's premier plantwide machinery management solutions through bi-annual product releases.

Thank you,

Nigel Leigh, Product Line Manager

Sonu Jain, Technical Product Manager

On behalf of your SCOUT200 Leadership and Development Teams

1. V22.1 CAPABILITY OVERVIEW

V22.1 SCOUT200 Overview video located in Bently Nevada Tech Support Training Library
[Valid M&S Agreement Required](#)

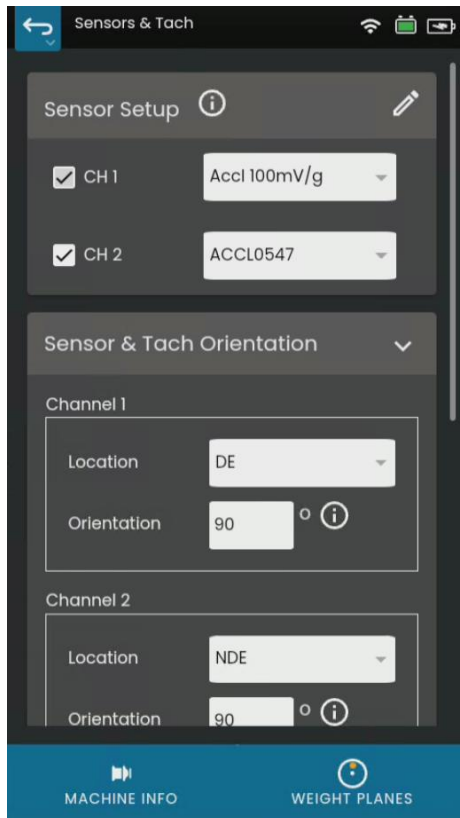
SCOUT200 v22.1 Capabilities		
Feature	Description	Section
Dual Plane Rotor Balancing	SCOUT200 now offers the power and convenience of dual plane balancing with dual channel measurement.	2
Balancing Enhancements	Add/Edit Sensors within Balancing setup Fixed-positions option for entering balance weight positions Balance History shows all the Balance Jobs performed	3
Receive Balance jobs in System 1	Receive balance jobs into System 1 via File mode. Balance tab shows all the Balance jobs performed on selected machine in hierarchy	4
Generate Balance Job Report	Generate Balance Job report in System 1	5

2. DUAL PLANE ROTOR BALANCING

Building on the release of single plane rotor balancing in v21.2, SCOUT200 now offers the advantage of dual plane balancing with dual channel measurements.

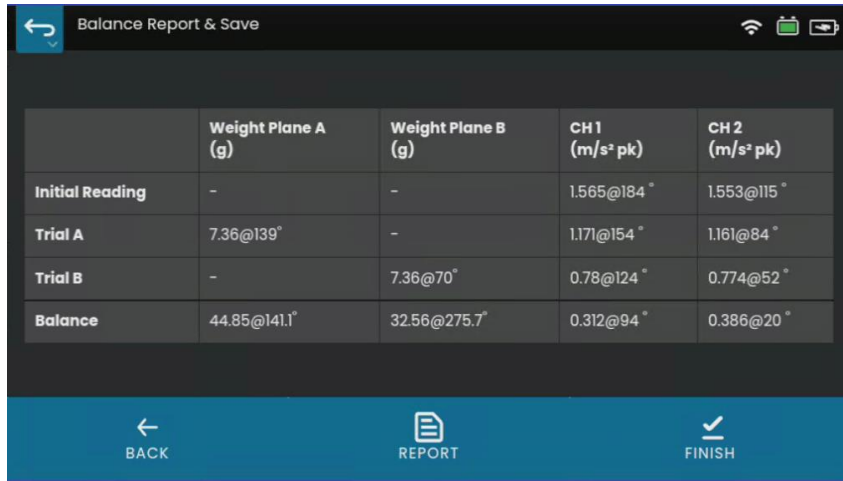
Launch SI Collector app and click on Balance. This launches the Balance menu.

1. **Setup** – Sensors & Tach page allows you to enable Dual Plane Balancing by selecting CH2.



2. **Initial Reading** – Channel 1 and Channel 2 measure initial imbalance
3. **Trial Weight and Reading – Plane A:** Attach Trial weight to the balancing plane A and measure.
4. **Trial Weight and Reading – Plane B:** Attach Trial weight to the balancing plane B and measure.
5. **Balance** – Attach **Balance** weights to the balancing planes as recommended by SI Collector app. Take measurement to confirm the rotor is balanced.
6. **Trim** – Any residual imbalance can be removed via additional trim balance cycles.
7. **Report**– View and save Balance Report.

8. Finish - Save the completed Balance Job

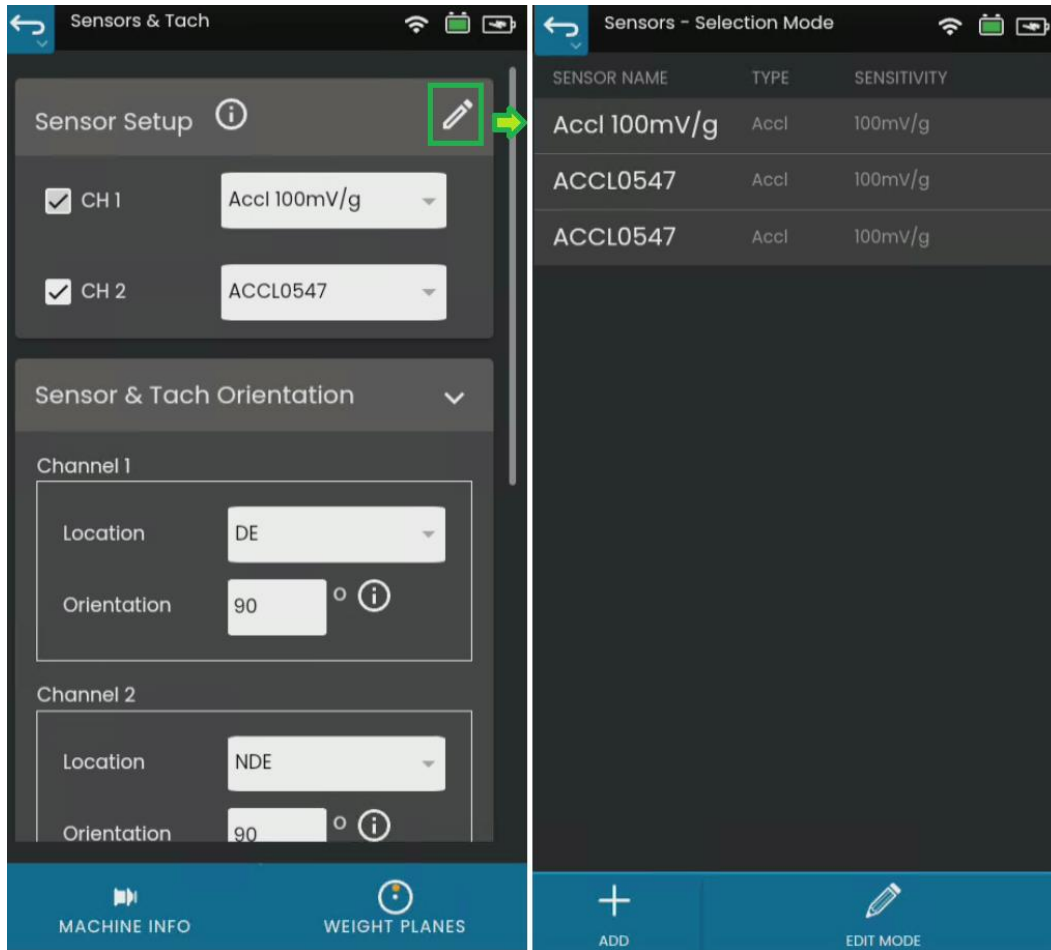


	Weight Plane A (g)	Weight Plane B (g)	CH 1 (m/s ² pk)	CH 2 (m/s ² pk)
Initial Reading	-	-	1.565@184 °	1.553@115 °
Trial A	7.36@139°	-	1.171@154 °	1.161@84 °
Trial B	-	7.36@70°	0.78@124 °	0.774@52 °
Balance	44.85@141.1°	32.56@275.7°	0.312@94 °	0.386@20 °

3. BALANCING ENHANCEMENTS

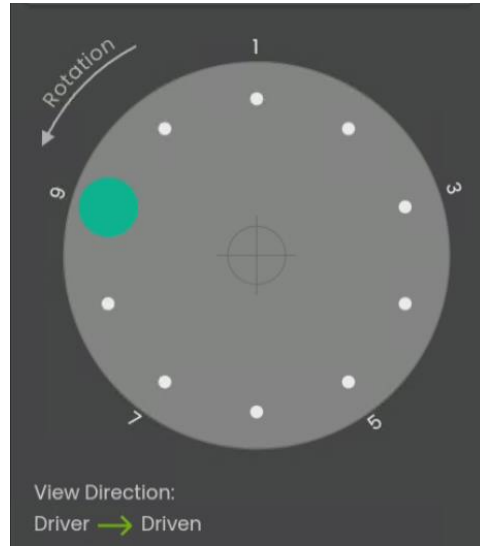
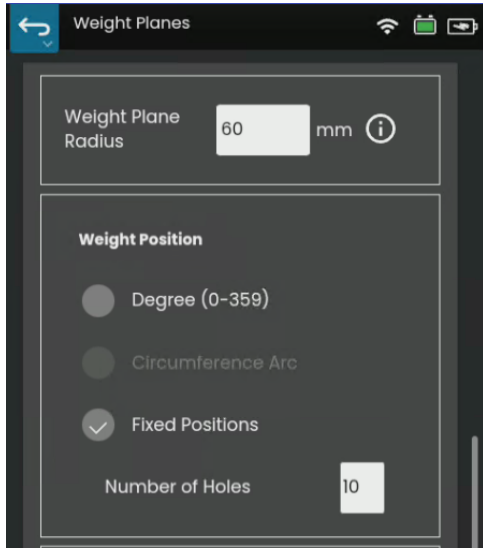
3.1 Add/Edit Sensor in Sensor & Tach page

With v22.1, users now have the convenience of Adding and Editing Sensors within the Balancing Setup screens.



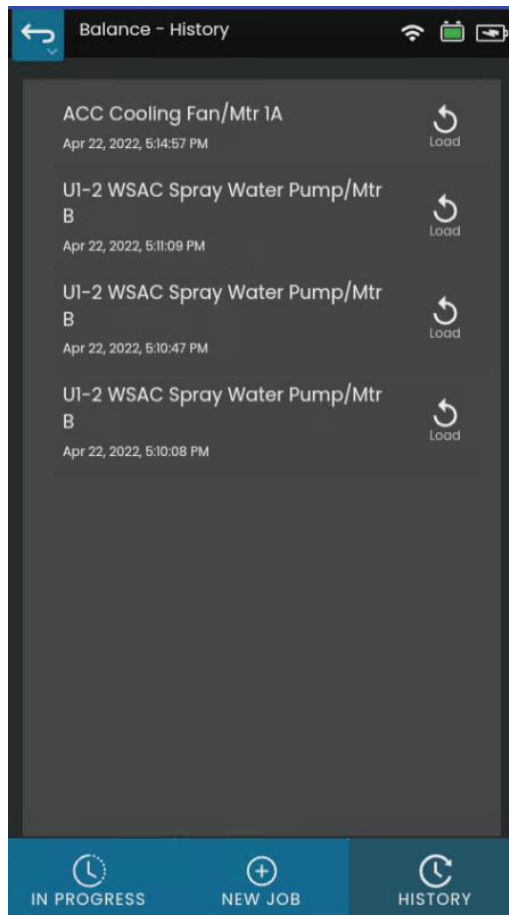
3.2 Balancing Fixed Positions mode

As an alternative to measuring the position of balance weights on the rotor in degrees, users can now specify that a fixed number of evenly spaced balance weight locations are available. Examples are rotors with pre-drilled balance weight locations and attaching weights to fan blades. The user need only enter the position number rather than measure the angle. The selected Weight Position mode is used for all weight pages throughout the app.



3.3 Balance History

With v22.1, the Balance menu page has a new addition, the Balance History tab. This shows all the Balance jobs performed using this handheld. The user can select and load a previous job, then view the readings, generate a pdf report, or even resume the balance process.



4. RECEIVE BALANCE JOBS INTO SYSTEM 1

Balance jobs can now be received into System 1. They are stored within the appropriate database and listed on the new “Balance Job” tab within the existing Case History area. The Balance jobs can be opened to view the readings and to print a report.

The transfer of Balance job to System 1 is currently only supported via File mode, but in future releases this will be extended to include WiFi, USB Tethering and Remote Comms..

Status		Events		Plots		Case History	
Reviews		Plot Records		Notes		Balance Job	
Path	Asset Name	Tag Name	Balance Speed	Device	Created Date		
CC Power Plant > Unit 1-2 >...	U1-2 WSAC Spray Wat...	GenericMotorPumpS...	1800 rpm	SCOUT200	4/22/2022 5:10:08 PM		
CC Power Plant > Unit 1-2 >...	U1-2 WSAC Spray Wat...	GenericMotorPumpS...	1800 rpm	SCOUT200	4/19/2022 5:57:13 PM		
CC Power Plant > Unit 1-2 >...	U1-2 WSAC Spray Wat...	GenericMotorPumpS...	1800 rpm	SCOUT200	4/22/2022 5:10:47 PM		
CC Power Plant > Unit 1-2 >...	U1-2 WSAC Spray Wat...	GenericMotorPumpS...	1800 rpm	SCOUT200	4/22/2022 5:11:09 PM		
CC Power Plant > Unit 3 Air...	ACC Cooling Fan/Mtr 1A	MtrGbx2StgParCTF	1800 rpm	SCOUT200	4/19/2022 7:31:18 PM		
CC Power Plant > Unit 3 Air...	ACC Cooling Fan/Mtr 1A	MtrGbx2StgParCTF	1800 rpm	SCOUT200	4/19/2022 4:25:15 PM		
CC Power Plant > Unit 3 Air...	ACC Cooling Fan/Mtr 1A	MtrGbx2StgParCTF	1800 rpm	SCOUT200	4/19/2022 5:02:29 PM		
CC Power Plant > Unit 3 Air...	ACC Cooling Fan/Mtr 1A	MtrGbx2StgParCTF	1800 rpm	SCOUT200	4/22/2022 5:14:57 PM		
CC Power Plant > Unit 3 Air...	ACC Cooling Fan/Mtr 1B	MtrGbx2StgParCTF	1800 rpm	SCOUT200	4/19/2022 7:28:31 PM		
CC Power Plant > Unit 3 Air...	ACC Cooling Fan/Mtr 1C	MtrGbx2StgParCTF	1800 rpm	SCOUT200	4/19/2022 5:05:31 PM		
CC Power Plant > Test > Rot...	Dual Plane Machine	Machine	3000 rpm	SCOUT200	4/21/2022 4:59:40 PM		

5. GENERATE BALANCE JOB REPORT IN SYSTEM 1

System 1 v22.1 allows you to view and print Balance Reports. Within the Case History – Balance Jobs tab, select a Balance Job and click on the Generate Balance Report icon (at top right of screen).

Balance Report

Database: CC Power Plant

Balance Job Creation Time: 22-Apr-2022 05:10:08 PM

Machine Information

Folder: CC Power Plant
 Machine Name: U1-2 WSAC Spray Water Pump/Mtr B
 Rotor Weight: 16 kg
 Bearing Convention: NDE/DE
 Rotation Direction: CounterClockwise

Sensors & Tach

CH1 Sensor: Accl 100mV/g
 CH2 Sensor: ACCL0547
 Channel 1 Location: DE
 Channel 1 Orientation: 90°
 Channel 2 Location: NDE
 Channel 2 Orientation: 90°
 Tachometer Orientation: 0°

Weight Planes

Plane A

Weight Plane Radius: 60 mm
 Weight Position: Degrees
 Weight Reference Mark: 0°
 View Direction: Driver-to-Driven

Plane B

Weight Plane Radius: 60 mm
 Weight Position: Degrees
 Weight Reference Mark: 0°
 View Direction: Driver-to-Driven

Balance Report

Database: CC Power Plant

Balance Job Creation Time: 22-Apr-2022 05:10:08 PM

Machine Speed: 1800 rpm/30 Hz

	Weight Plane A (g)	Weight Plane B (g)	Ch1 (m/s ² pk)	Ch2 (m/s ² pk)
Initial Reading	-	-	1.565@184°	1.553@115°
Trial A	7.36@139°	-	1.171@154°	1.161@84°
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Balance	44.85@141.07°	32.56@275.7°	0.312@94°	0.386@20°

6. UPDATING S1 COLLECTOR APP

Before updating the app, first ensure all data has been received into System 1.

To update *both* System 1 and the System 1 Collector App (and for handhelds without an Internet Connection):

1. Using your computer, locate the "System 1 Collector App" through your System 1 licensing account on: Flexnet: <https://bakerhughes.flexnetoperations.com/>
2. Download the ".apk" installation file to your computer.
3. Transfer the file via USB to the handheld.
4. Locate the .apk file on your hand-held device and install the S1 Collector app.
5. If prompted, follow the displayed instructions to allow unknown sources to install an app on your hand-held device.
6. Follow the app instructions and when requested, allow the app permissions for Pictures, Location, Audio, and Phone.
7. Download and update System 1 as usual.

To update the System 1 Collector App only, via an internet connection on the handheld:

1. Make sure your handheld device is connected to the internet (e.g. via Wi-Fi.)
2. Open the Google Play Store app.
3. Search for the "S1 Collector" app, published by Baker Hughes / Bently Nevada, and install.

If any problems are encountered, first un-install the existing version of S1 Collector app, then try again.

For further instructions, see the SCOUT200 User Guide, Quickstart Guide, or the Readme file which is provided via Flexnet.

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