

# 013847 CB-ES Remote cable(25pin)

## 1. Features

CB-ES Remote cable(25pin) can be used to synchronize and control an external equipment such as SEC2020 Spectrometer system or RRDE-3A Rotating Ring Disk Electrode Apparatus using the 25-pin Cell Control terminal on the back of ALS Model 600, 700, 800, 1100, (400, 900) series.



Figure 1-1 CB-ES Remote cable(25pin)

## 2. Specifications



Figure 2-1 25-pin Cell Control terminal of ALS Model

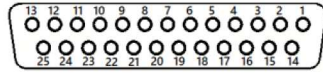


Figure 2-2 Terminal pin number schematic

Table 2-1. Pin number and corresponding function

Wire Labeling	Pin #	Function
G	7	DGNG(Ground)
S	8	Stir
K	9	Spectrometer Control* / Knock
P	21	Purge

\*Some ALS models do not support Spectrometer Control function.

## 3. Application 1

### Trigger control of SEC2020 Spectrometer

- Figure 3-1 is an example of trigger connection for ALS Model 760E and SEC2020 Spectrometer system.
- Firmly plug the CB-ES Remote cable(25pin) into the 25-pin Cell Control terminal of ALS Model and secure it with thumbscrews.
- Check the pin labels on the wire and connect K(Pin#9, Spectrometer Control), G(Pin#7,Ground), with the trigger cable Trigger In (brown), trigger cable Ground (black) attached to SEC2020 respectively. Please refer to Figure 3-1 and Table 3-1.

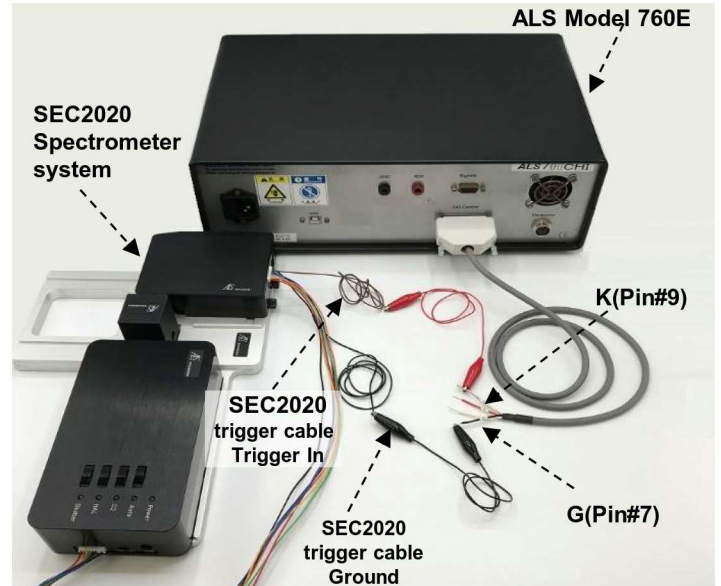


Figure 3-1 Trigger connection of ALS Model and SEC2020

Table 3-1. Pin number and corresponding remote terminal

ALS Model	Function	SEC2020 Trigger cable
K(Pin#9)	Spectrometer Control	Trigger In (brown)
G(Pin#7)	Ground	Ground (black)

## 4. Application 2

### Control of RRDE-3A Rotating Ring Disk Electrode Apparatus

- Figure 4-1 is an example of remote connection for ALS Potentiostat and RRDE-3A Rotating Ring Disk Electrode Apparatus.
- Firmly plug the CB-ES Remote cable(25pin) into the 25-pin Cell Control terminal of ALS Model and secure it with thumbscrews.
- Check the pin labels on the wire, for **gas purge control**, connect P(Pin#21,Purge), G(Pin#7,Ground) with the remote terminal PURGE, GND(next to PURGE) of RRDE-3A respectively. Please refer to Figure 4-2 and Table 4-1.



Figure 4-1 Remote connection of ALS Model and RRDE-3A

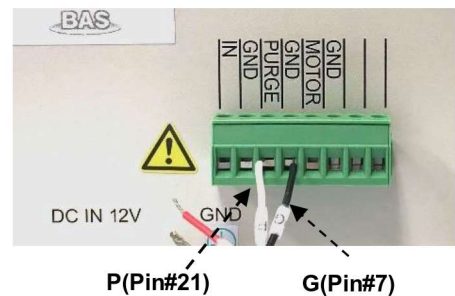


Figure 4-2 PURGE connection to the remote terminal

Table 4-1. Pin number and corresponding remote terminal

ALS Model	Function	RRDE-3A Remote terminal
P(Pin#21)	Purge	PURGE
G(Pin#7)	Ground	GND(next to PURGE/MOTOR)

An ALS model with RDE is required **to control the rotation speed**. Connect the separately sold 008133 CB-BS BAS accessory cable to the RDE terminal for control.

### Sold separately

013609 SEC2020 Spectrometer system  
013725 RRDE-3A Rotating Ring Disk Electrode Apparatus Ver.3.0  
008133 CB-BS BAS Accessory cable

Please refer to the instrument manual for details.

<https://www.als-japan.com/support-instrument-manual.html>

Manufactured by: ALS Co., Ltd  
<https://www.als-japan.com>

Exclusive distributor: BAS Inc.  
email: [sales@als-japan.com](mailto:sales@als-japan.com)