CPS Pulse™ FOR RESPONSE

Before you use your CPS Pulse clicker in class, please enter your Student ID.
This is important because the Student ID is sent with each answer to identify it as yours in Response. In addition, it is important that you take care when you enter your Student ID. The Student ID is locked in your CPS Pulse clicker's memory and requires a special code to unlock and change it.

- Power on your CPS Pulse clicker.
- When the *Welcome* message displays, press the **Menu** key and use the **Navigation** keys to scroll to the *Student ID* menu option. Press the **Enter** key.
- Carefully type your Student ID, using the **Text Entry Mode** key to switch text modes, if necessary, and the **Backspace** key to remove mistypes. Press the **Enter** key.
- Re-type your Student ID to confirm and press the **Enter** key again.

The CPS Pulse Keys

You will use your CPS Pulse clicker as you do your other handheld devices that have keypads. Key touches are described here as *presses*. Several keys have two types of key presses – *press* and *press and hold*.

The Screen

ICON	NAME	DESCRIPTION
8888	Channel #	Displays Channel # or homework bin, depending on mode.
(OK)	Enter/Send	Animated during transmission. **OK** when transmission acknowledged.
√/X	Correct/Incorrect	Indicates correct or incorrect answer. Teacher must activate this option.
↑ ↓	RF Activity Indicators	Up arrow flashes for each transmit, down arrow flashes for each receive.
A1 B2 C3	Text Entry Mode	Indicates which of the text entry modes - alpha, numeric, SMS - is currently in use.
📝	Self-Paced Mode	Indicates that the keypad is operating in Self-Paced Mode.
🏠	Homework Mode	Indicates that the Pulse is being used in Homework Mode.
💾	Saved Homework	Indicates that homework answers have been saved to memory for later transfer to CPS.
🔋	Battery Status	Indicates the current battery voltage from full to low to very low. Very low will flash.

Menu
Press to access the Main Menu.
Press the **Navigation** keys to scroll the Menu.
Press the **Enter** key to select a Menu item.

Menu Item	Description
Join	Press the **Enter** key. Type the **Join Code** for the Class.
Homework	Press the **Enter** key to use Homework Mode.
Channel	Displays the Channel # in the upper left corner of the Screen.
Clicker #	Displays the clicker's assigned number.
Student ID	View the SID locked in clicker's memory. Can only be changed using Unlock Menu item below.
Greeting	The Greeting displays when you turn on the Pulse. Press the **Enter** key, type your greeting, press the **Enter** key again to save it.
Contrast	Press the **Navigation** keys to adjust the contrast from low contrast (1) to high contrast (6).
Diagnostic	Displays the Pulse's Serial number, your Pulse type, the signal strength, and firmware version.
Unlock	Enter the Unlock key obtained from the Response Student section on eInstruction's Web site.

Left Navigation

Backspace

Alpha/Numeric/SMS Entry

Plus/Minus

Switch text entry mode
Press key multiple times to cycle through the text entry modes. As you change modes, they are pictured on the Screen.

Power
Press to power on your CPS Pulse.
Press and hold for 2 seconds to power down your CPS Pulse.

Right Navigation

Enter/Send

Symbol
Press key multiple times to cycle through Symbols Table.

Symbols Table

. Period	y
, Comma	= Equal
/ Division	> Greater than
* Multiplication	< Less than
+ Plus	≥ Greater than or equal
- Minus	≤ Less than or equal
Space	| Pipe
(Open Parenthesis	√ Square Root
) Close Parenthesis	^ Caret
x	@ Email

Jump/Search
Press key to **jump** to a question in a self-paced test or homework assignment.
Press and hold key to search for the next unanswered question.

On the Screen

Power On

As the Pulse powers up, *eInstruction* and your clicker's Serial number appear on the Pulse Screen. The Greeting displays and Pulse begins searching for a Class to join.

Join the Class

You are instructed to enter a Class Channel # and press **Enter** key, or

Press Menu, navigate to the **Join** menu item and press **Enter** key, or

You may be joined automatically to the Class.

> When **Q**: _ appears on your Pulse Screen, you are joined to the Class and ready to answer questions.

Changing Text Entry Modes

You can answer many different types of questions with your Pulse clicker—single answer multiple choice, true/false, numeric, multiple correct multiple choice, answer series, short answer, and so on. The Pulse clicker will change to the appropriate entry mode when the teacher begins asking questions.

Self-Paced Mode

If the **Self-Paced Mode** icon displays on your Pulse Screen, you are going to be taking a test. You can answer the questions in any order. You can return to a question and change your answer as many times as you want within the time allotted for the test. Use the **Alpha/Numeric/SMS Entry** key to cycle to the appropriate text entry mode you need to enter your answer (Numeric $^1_3$, Multiple Choice ^A_C, or Short Answer $^{A1}_{B2\ C3}$). Verify the mode you are in on your Pulse Screen. Each time you press the **Enter/Send** key, your answer to the current question is transmitted. Watch the **Enter/Send** icon to verify transmission. Press the **Jump/Search** key and designate the question you want to jump to. Press and hold the **Jump/Search** key to jump to the next unanswered question.

Answering a Question

1. Select the appropriate text entry mode.
2. Press the key or keys in your answer. Use the **Backspace** key to make corrections.
3. Press the **Enter/Send** key.

The Enter/Send icon will be animated on the Pulse Screen and OK will verify a successful transmission. If your teacher has set the **Correct/Incorrect Answer** icon ✓✗, where appropriate for specific question types, it will display on the Pulse Screen.

Powering Down

To turn off your CPS Pulse, press and hold the **Power** key for about two seconds until you see the *Powering Down* message on the Screen.

You can store up to four homework assignments in your CPS Pulse clicker.

On the Screen

Open Menu and Navigate to Homework Mode

Power on Pulse and press the **Menu** key.

Navigate to the **Homework** menu item and press the **Enter** key.

The **Homework** icon 🏠 on the Pulse Screen indicates you are now in Homework Mode.

Prepare the Homework Bin

Navigate to one of the four Homework bins and press the **Enter** key.

Name the homework assignment. Use the **Backspace** key to make corrections. Press the **Enter** key to save the name. Use the **Navigation** key to select New, press Enter. It's always a good idea to clear the contents of the homework bin when you are starting a new assignment, so navigate to Yes and press Enter. If your homework assignment has a number, enter it here and press the **Enter** key. If there is no test number, press the **Enter** key or the Right Navigation key to skip this part and move into the homework assignment where you can begin answering questions.

Look at the icons across the top of your Pulse Screen: The number of the homework bin you selected is in the left corner. The **Enter/Send** icon ◌ is next to the homework bin number. It is inactive while you are in Homework Mode, as you are saving your answers in the clicker's memory when you press the **Enter** key, not transmitting them to the Response software. Next is the **Text Entry Mode** icon, the **Homework Mode** icon 🏠 and the **Battery Status** icon.

Answering Homework Questions

You can now start answering the questions in the homework assignment. You can answer the questions in any order, going back and changing answers as often as you want to. Each time you answer a question, press the **Enter** key to save it.

Use the **Navigation** keys to move between the questions.

Press the **Jump/Search** key and type the number of the question you want to jump to. Press the **Enter** key.

You can stop at any time. Press the **Menu** key to exit Homework Mode. You can also Power Down your Pulse to quit Homework Mode.

Editing a Saved Homework Assignment

The next time you go into Homework Mode and navigate to the homework bin you stored your homework assignment in, you will see the Saved Homework icon 💾 displayed on the Pulse Screen, indicating that you have data in that homework bin. When you re-enter the homework bin, select the Edit option. All the answers you previously entered have been retained. You can answer new questions and you can change existing answers.

Press and hold the **Jump/Search** key to go directly to the next unanswered question.

Homework Collection

Homework is collected in the classroom during a Homework Collection Session. You will be instructed to join the Class and open the homework bin in which you stored the homework assignment that is being collected. Your teacher will start the Homework Collection Session and your answers will be transmitted to your gradebook record in Response.

1.1 Declaration of Conformity

This device complies with the following European Directives and USA/Canada Regulations:

➤ Directive 1999/5/EC on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity
➤ Directive 2006/95/EC on the harmonization of laws of member states related to electrical equipment designed for use within certain voltage limits
➤ The USA Federal Communications Commission (FCC) Rules and Regulations
➤ Industry Canada Rules and Regulations

This device complies with the following national and international standards:

➤ EN 301 489-1 V1.6.1:2005: EMR; EMC standard for radio equipment and services. Part 1: Common technical requirements.
➤ EN 301 489-17 V1.2.1:2002: EMR; EMC standard for radio equipment and services. Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment.
➤ EN 300 328 V1.7.1: Electromagnetic compatibility and Radio spectrum Matters (ERM): Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques.
➤ EN 60950-1: 2001 + A11: 2004: Information technology equipment – Safety. Part 1: General requirements
➤ FCC Part 15B, 15.247: 10-01-2006: Radio Frequency devices: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.
➤ IC RSS-210 Issue 7: 2007: Low power license-except radio-communications devices (all frequency bands): Category 1 equipment.

1.2 FCC/IC Compliance

This device complies with Part 15 of the FCC Rules and RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) this device may not cause interference and (2) this device must accept any interference, including interference that may cause undesired operation of the device. The user is cautioned that changes or modifications to the device that are not approved by the manufacturer could void user's authority to operate the device.

1.3 EU Compliance

This device is a 2.4 GHz low power response system intended for residential and commercial use in all EU and EFTA member states.

Notice

The base and keypad units may be susceptible to *Electrostatic Discharge* (ESD) and other similar fast transient events causing system interruption. Should system interruption occur, reboot computer, reset base unit by disconnecting and reconnecting USB cable and push any key on keypads which have powered down.

Scottsdale, Arizona, U.S.A.	7.8.2009	Tom Grinter
Location	Date	Dir of Engineering

Patents

CPS Pulse will use proprietary technology covered by the following US patent No.: 7,277,671, 6,665,000, 6,021,119, 5,724,357, Re. 35,449, 5,379,213 European Patent No.: EP 1 427 228 b1, EP 1 337 127 b1, EP 0 697 773 b1, and other US and foreign patents and patents pending.

Environmental Regulations

The European Union has forced stringent requirements on manufacturers to limit the contents of lead and other chemicals in electronic assemblies. Other international and US states are considering similar rules. This system will comply with RoHS and WEEE and will require further analysis regarding other regulations.

For international sales, the dealer responsible for placing it on the market in Europe is responsible for contracting for battery and other component disposal at the product end of life up front at the time of sale.

Training

Are you interested in learning more about what CPS can do for your classroom? We offer free online training resources for you. Enter the following link into your browser to find training videos and *Quick Step* guides that you can download:

http://www.einstruction.com/support_downloads/training/resources/index.html

Or, contact Professional Services directly: pcs@einstruction.com.

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Simple Solutions. Real Results.

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