Eagle 2 Calibration Station Operation

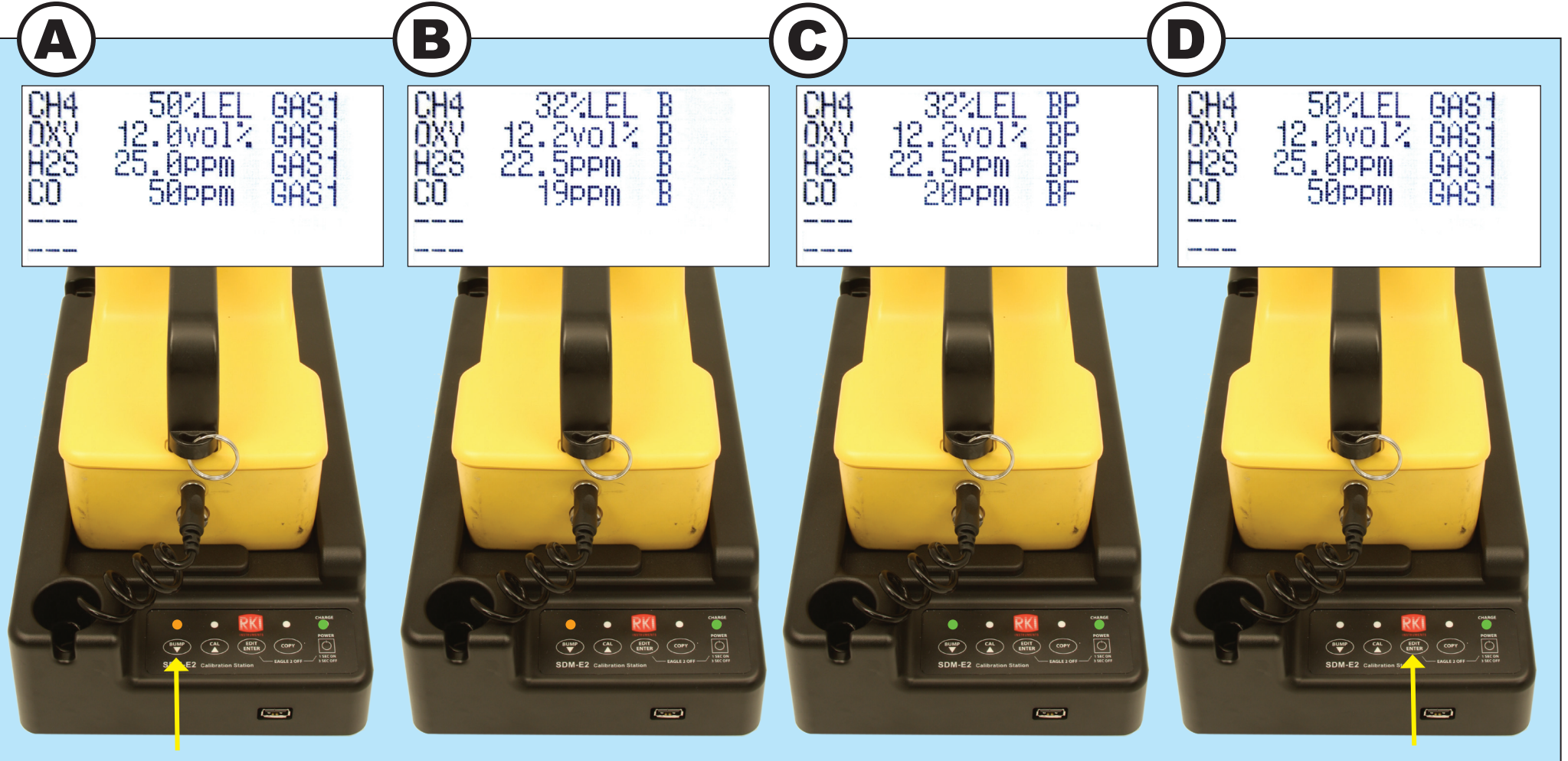## TURN ON

A

```
CH4     50%LEL GAS1
OXY   12.0vol% GAS1
H2S    25.0ppm GAS1
CO       50ppm GAS1
___
```
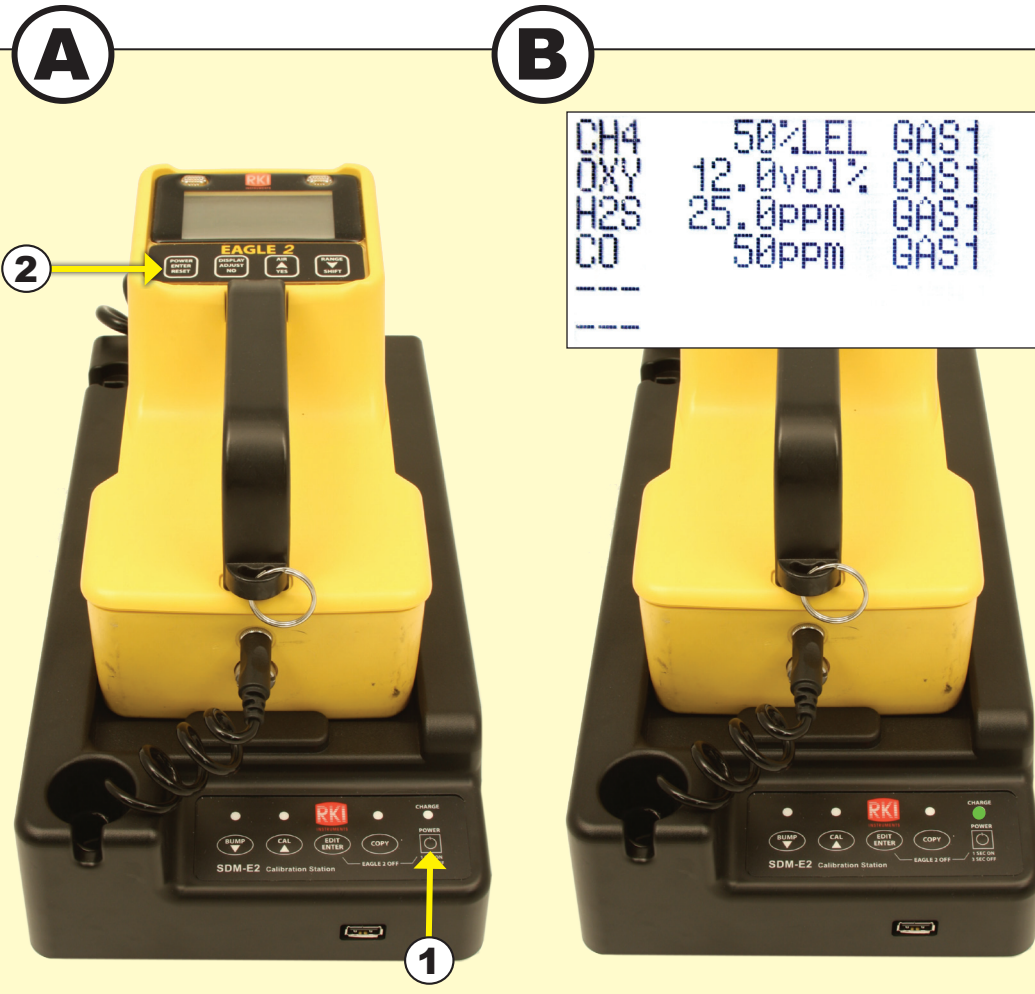
Turn Cal Station On

1. Press the "POWER" button on the cal station.

2. Seat the Eagle 2 into the cal station. Then turn on the Eagle 2 by pressing the "POWER/ENTER/RESET" button on the gas monitor.

B

Instrument Connected

Once on, the display will show gas channels. The gas monitor is ready for a Bump Test or Calibration.

BUMP TEST

A

```
CH4     50%LEL GAS1
OXY   12.0vol% GAS1
H2S    25.0ppm GAS1
CO       50ppm GAS1
___
```

Bump Test

Press the "Bump" button to start bump test.

Note: Ensure calibration gas cylinder is connected to a demand flow regulator and then to the correct port (Gas 1 or Gas 2) on the back of the cal station. **Make sure calibration gas concentrations match values shown on display.**

B

```
CH4     32%LEL B
OXY   12.2vol% B
H2S    22.5ppm B
CO       19ppm B
___
```

Bump Gas Reading

During bump test, the display shows current gas reading and the bump LED will flash amber.

C

```
CH4     32%LEL BP
OXY   12.2vol% BP
H2S    22.5ppm BP
CO       20ppm BF
___
```

Bump Results

The BUMP LED will stop blinking and be on steadily green if the bump test passed or steadily red if the bump test failed. Display will show "P" for pass or "F" for fail for each sensor.

D

```
CH4     50%LEL GAS1
OXY   12.0vol% GAS1
H2S    25.0ppm GAS1
CO       50ppm GAS1
___
```

Return to Home Screen

Press and hold the "EDIT/ENTER" button to return to home screen. See step "D" below for turning off instrument after completion of bump test.

CALIBRATION

A

```
CH4     50%LEL GAS1
OXY   12.0vol% GAS1
H2S    25.0ppm GAS1
CO       50ppm GAS1
___
___
```

Calibrate

Press the "CAL" button to start calibration.

Note: Ensure calibration gas cylinder is connected to a demand flow regulator and then to the correct port (Gas 1 or Gas 2) on the back of the cal station. **Make sure calibration gas concentrations match values shown on display.**

B

```
CH4     32%LEL C
OXY   12.2vol% C
H2S    22.5ppm C
CO       19ppm C
___
```
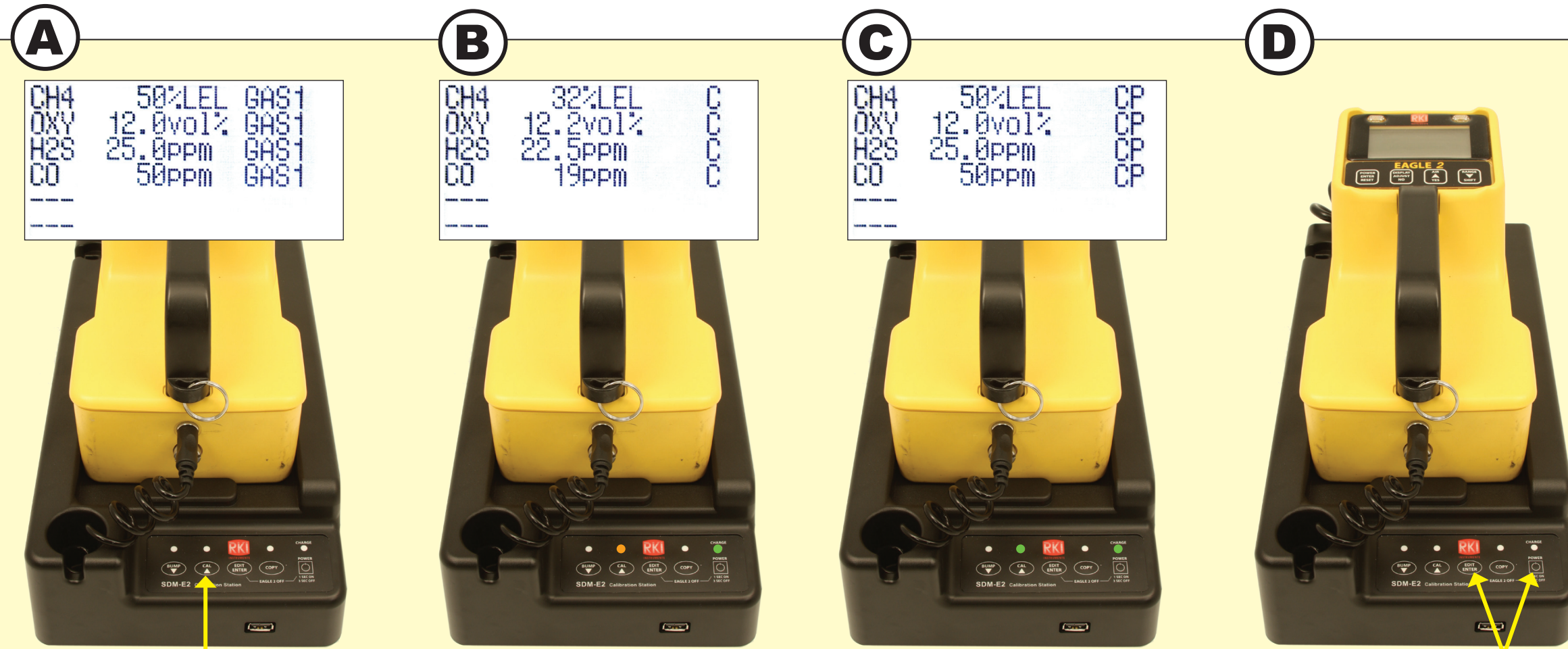
Calibration Gas Readings

During calibration, the display shows current gas readings. Typical calibration will take 3 minutes.

C

```
CH4     50%LEL CP
OXY   12.0vol% CP
H2S    25.0ppm CP
CO       50ppm CP
___
```

Calibration Results

Once calibration is complete, the display either shows a "P" for pass or an "F" for fail for each sensor. The "CAL" LED lights in green when calibration is passed. "CAL" LED lights in red if there is a failure.

D

Removing from SDM-E2

After a successful bump test or calibration, the Eagle 2 will automatically turn off within 15 seconds. **To turn off manually, press the SDM-E2 "Edit Enter" and "Power" buttons simultaneously.**

Warning: Do not remove the Eagle 2 before turning it off, and do not use the Eagle 2's power button to power it down.

DATA TRANSFER

Data Transfer To USB Flash Drive

With USB flash drive installed and unit powered on, press and hold the COPY button until the COPY LED turns red, then release it. The COPY LED will become solid red while the records in the calibration station's memory are copied to the flash drive. In addition, if the flash drive has an LED, it will begin to blink.

When the COPY LED returns to its original color and begins blinking again and the flash drive's LED (if it has one) stops blinking, the copy operation is complete. Remove the flash drive from the USB port.

Transfer data to PC with Calibration Station software, following the instructions in the Operator's Manual.

RKI Instruments, Inc. • 33248 Central Ave. Union City, CA 94587 • Phone (800) 754-5165 • (510) 441-5656 • Fax (510) 441-5650

www.rkiinstruments.com

RKI
INSTRUMENTS

Eagle 2 Calibration Station
User Guide

Model SDM-E2

PN 71-0255RK