Option 13 — Calibration Data

To access the Calibration Data menu in Display mode:

1. Press **D**.
2. Press **2** to invoke the Quick Jump option.
3. Press **13** for the **Calibration Data** menu, and then press **E**.

```
SENSOR SN
FD9079A
```

   A prompt appears showing the sensor serial number.

4. Press **P** to continue.

```
CAL FLOW UNIT
>SMPS ^v
```

   The Calibration Flow Unit prompt appears.

5. Press **P** to continue.

```
FACTORY STP REF
25DEGC/101.3KPA
```

   The factory reference settings appear.

6. Press **P** to continue.

```
USER REF TEMP
>77.00000000 DEGF
```

   The user reference temperature is typically based on the environment temperature, not the process temperature. The initial temperature is set at 77°F.

7. Press **P** to continue.

```
USER REF PRESS
>14.6959500  PSIA
```

   The user reference pressure is typically based on elevation. The initial calibration is set at sea level.

8. Press **P** to continue.

```
GAS NAME
>Air
```

The gas name prompt appears.

Gas names are referred to by their molecular formula.

Gas	Molecular Formula	Molar Weight	Gas	Molecular Formula	Molar Weight
Air	Air	28.97	Helium	He	4.00
Argon	Ar	39.94	Hydrogen	H2	2.02
Butane	C4H10	58.12	Digester gas (50 CH4, 50 CO2)	50/50	-
Carbon dioxide	CO2	44.01	Digester gas (60 CH4, 40 CO2)	60/40	-
Dry ammonia	NH3	17.04	Digester gas (70 CH4, 30 CO2)	70/30	-
Dry chlorine	CL2	71.0	Nitrogen	N2	28.02
Ethane	C2H6	30.07	Oxygen	O2	32.00
Ethylene	C2H4	28.05	Propane	C3H8	44.09

9. Press **P** to continue.

```
GAS MOL WT
>28.9600000
```

The molar weight prompt appears.

10. Press **P** to continue.

```
NEW REF DENSITY:
1.9684 KG/M3
```

The reference density is automatically generated based on the values entered for the reference temperature and reference pressure.

11. Press **P** to continue.

```
# CAL DATA SET
> 1
```

The prompt appears for up to eight calibration sets. In order to view the settings for a specific set, you must scroll through the settings for all preceding sets.

12. Press **P** to continue.

```
FLOW DATA SET 1
>20.0000000 DEGC
```

The prompt shows the top degree range for the first curve.

13. Press **P** to continue.

```
#DATA PTS CAL 1
>13
```

The prompt shows the number of points within the curve. There can be up to 15 points.

14. Press **P** to continue through each raw signal-flow data pair.

```
RAW SIGNAL S1- 1
>0.16373000 W
```

```
FLOW DATA S1- 1
>0.00000000 SMPS
```

```
RAW SIGNAL S1- 2
>0.21131000 W
```

```
FLOW DATA S1- 2
>0.4550100 SMPS
```

```
. . . . . .
```

Each point has a raw signal value and a flow data value. In this example, only the first two data point prompts are shown, but the format repeats for all data points in the data set and then for all the points in each additional data set.

15. Press **P** to continue scrolling through the prompts for all data sets, or press **H** to exit.

The main Display mode (DSP) prompt appears.