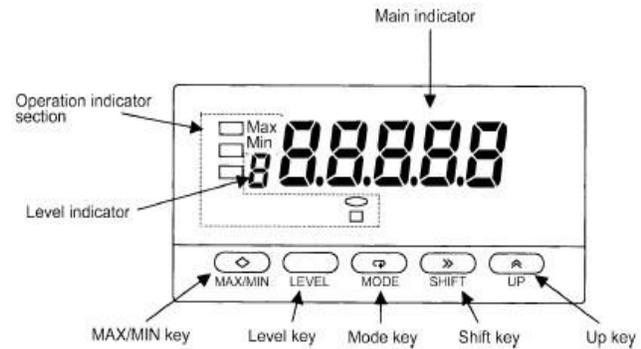


# Flow Commander Display

## Navigation

1. LEVEL >>> Press and hold (about 3 seconds) to enter menu
2. MODE >>> Press to navigate the menu
  - a. In-t should always read 0-5 (this tells the system the input values are scaled at 0-5V)
  - b. InP1 and dSP1 are used for calibrating to nitrogen (zero oxygen and zero carbon dioxide)
  - c. InP2 and dSP2 are used for calibrating to your calibration gas
    - i. Calibration gas is usually 21% oxygen and 5% carbon dioxide (or one or the other)
  - d. dP sets your decimal point
    - i. usually 00.00 or 000.0
3. SHIFT >>> press to see the value associated with the "MODE"
4. SHIFT >>> while viewing the MODE value press shift again in order change the values
  - a. The MODE value should blink indicating that it can be changed
5. UP >>> may be used to SET (change) a value or TEACH a value
  - a. TEACH >>> only works while in InP1 and InP2
  - b. To TEACH a value press the UP button before pressing shift a second time
    - i. While in TEACH mode you should see a blinking "T" ii. Press UP again to accept the TEACH mode value



## Calibration

1. Calibration must be performed in this order (if the readings don't seem correct, restart the process)
2. Connect calibration gases to the system (at the appropriate time) as discussed in training
  - a. Do not pressurize the system
    - i. Readings will be incorrect
    - ii. It is likely the system will be damaged and need repair
3. Zero Calibration (using Nitrogen)
  - a. A "zero" gas must be used to calibrate to InPt1
  - b. InP1 >>> navigate to InP1 and TEACH the display the value
  - c. dSP1 >>> enter 00.00 as the value
4. Calibration Gas (usually 21% O2 and/or 5% CO2)
  - a. InP2 >>> navigate to InP2 and TEACH the value so that the display holds in memory
  - b. dSP2 >>> this value should be adjusted to match the concentration of calibration gas
    - i. calibration gas is typically 21% O2 and/or 5% CO2
5. Optimally you would now check the calibration with an alternate calibration gas
  - a. Typically, calibration-check gas concentration will be the actual study gas concentration e.g. 10% O2
6. CTRL+SHIFT+F8 (digital onscreen display calibration)
  - a. Adjust value to attain correct reading onscreen (monitor, digital display)
    - i. Press ok to accept a value change and port it to the screen