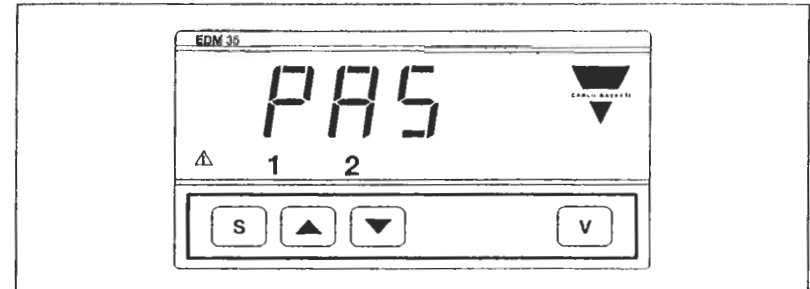# EDM35 Calibration

Calibration

The calibration mode allows the user to:

- Define the range selected by jumper on the input module (see pages 39-45 for jumper settings).
- Recalibrate the selected range.
- Reset the programming access password to 0.
- List and/or redefine linearization constants (for temperature input modules).

The input module will have all ranges calibrated before delivery (all constants are stored in the EEPROM of the input module).

To recalibrate the module, it is necessary to choose the range and connect a full-scale signal according to jumper settings to the input before entering the calibration mode. See table on page 38.

1. To enter calibration mode press both the « S » and « ▼ » keys simultaneously at power ON until the display shows "PAS". Then release the « S » and « ▼ » keys. The display shows "PAS" for 2 secs.

The instrument then waits for entry of a fixed password to choose function.

2. Press the « ▲ » key to increase the displayed value, or the « ▼ » key to decrease it, until the desired value is displayed.

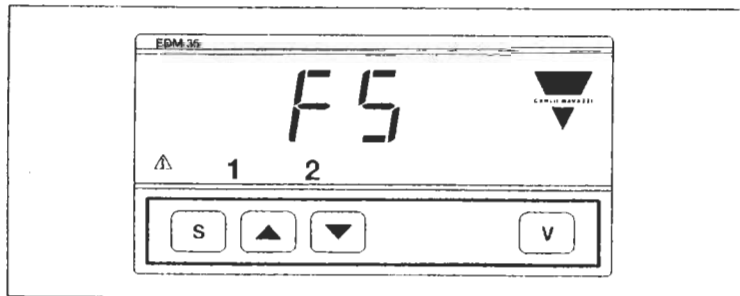 | Password : | Function : |
    | --- | --- |
    | 99 - RES : | Reset programming access password to 0. |
    | 88 - CAL : | Select input range and calibrate. (Caution!) |
    | 66 - SEL : | Select module input range. |
    | 33 - LIN : | Define linearization constants. (Caution!) |

3. Press « S ».
    If the entered value is valid, the instrument proceeds and shows the chosen function, otherwise it returns to measurement and control mode.

4. Press « S » to continue or turn off the EDM to exit without any changes.
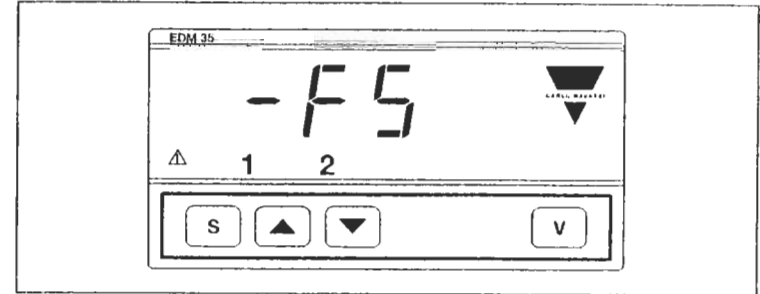
A)

Select input range and recalibrate (password 88). (Caution!)

The display shows the range selection to be calibrated. Make sure the calibration source is connected to the input. For correct calibration source, see table on page 38.

1. To retain the present value press the « S » key to continue with the calibration.

2. To select the new input range press the « ▲ » key to increase the displayed value, or the « ▼ » key to decrease it until the desired value is displayed.

3. Press the « S » key to calibrate the selected input range. During full-scale calibration the display shows:

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4. If the range code indicates DC version, the display will show "-FS". This is negative full-scale calibration. Apply negative full-scale calibration to the instrument and press « S ». Otherwise the calibration is terminated and the display shows "End" for 2 secs.

Instrument in waiting position for negative full-scale calibration.

5. After negative full-scale calibration, calibration mode is terminated and the display shows "End".

Note:
Each calibration lasts approx 1 sec.

Any overload of A/D converter during calibration causes exit of calibration mode. The display writes "Err" for 2 secs.

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