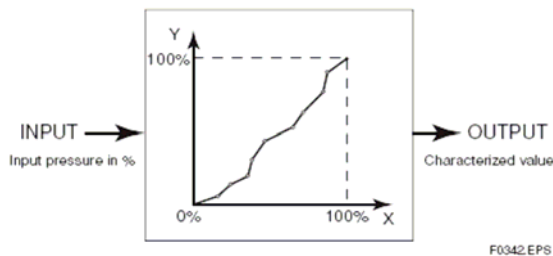


**Signal Characterization** is a versatile function available on the EJX series of transmitters. This function is used to compensate the output for non-linear applications. Such applications include tank strapping or flow measurement (or any non-linear application where the relationship between pressure input in % and desired output in % are known). For a measured pressure, a maximum of nine coordinates can be specified between 0 – 100%. These characterized values are applied to the 4 to 20mA output.

(See **Figure 1**)



**Figure 1**

### Section 1.0 Setting the Signal Characterizer

Using a Brain Communicator, setting the Signal Characterizer (S.C.) requires four basic steps:

1. S.C. set to *Inhibit*
2. Set the number of coordinates
3. Set the coordinates
4. S.C. set to *Enabled*

#### Section 1.1 S.C. set to *Inhibit*

The Signal Characterizer must be set to *Inhibit* before the transmitter will accept the coordinates.

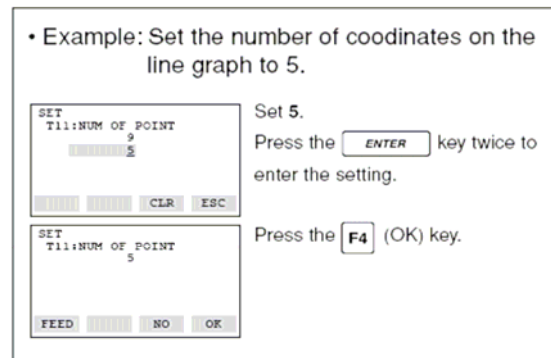
(See **Figure 4**)



#### Section 1.2 Set the number of coordinates

A minimum of 4 to maximum of 9 coordinates can be entered.

(See **Figure 2**)



**Figure 2**

#### Section 1.3 Set the Coordinates

The coordinates are set as (X, Y) where X is the input % and Y is the output %. The specified coordinates of X and Y must be incremental as the input increases.

(See **Figure 3**)

