

## STM94442A configured for 4-20mA signal

Setting the sensor type to type 2 allows a 4-20mA sensor to be connected to the monitor.

### Display characteristics

A 4-20mA sensor, when it is working correctly, will have an output of 4-20mA.

The LCD will display a range of 2-99%.

If the sensor output is 4mA the display will show 2%, not 0%.

If the sensor output is 20mA the display will show 99%, not 100%

If the sensor output is 19mA or less, the display will show 00%.

When the display shows 00%, it means that the sensor or field wiring is not working properly.

### Analog outputs

The monitor has a built-in 0-5V analog output for each channel.

This output is directly proportional to the input mA over the range of 0-20mA.

Examples

| <b>Sensor input</b> | <b>Display reading</b> | <b>Analog output</b> |
|---------------------|------------------------|----------------------|
| 0mA                 | 00%                    | 0.00V                |
| 3mA                 | 00%                    | 0.75V                |
| 4mA                 | 2%                     | 1.00V                |
| 10mA                | 37%                    | 2.5V                 |
| 12mA                | 50%                    | 3.0V                 |