

WE SENSE DISASTER...
AND NOW YOU ARE IN CONTROL...



4-20mA
Current-to-Voltage Converter

The **4-20 mAmp** signal converter is used to integrate the sensorProbe with a **4-20 mAmp** transmitter. **4-20 mAmp** technology is used to communicate analog signals over long distances where electrical interference is a problem. This solution is often used in the process control industry to collect the analog values from a wide array of remote sensors.

Current signals are much less susceptible to noise than voltage signals. A voltage signal can be converted to current and then broadcast over a long distance before it is converted back to voltage and read by the sensorProbe.

4-20 mAmp transmitters are common in the industry for use with high quality sensors. With the **4-20 mAmp** converter these sensors can now be integrated into the sensorProbe enhancing their value with the addition of graphing, web interface, email interface, thresholds, and limits.

Specifications

| | |
|-----------------------|--|
| Input Current Range | +4 mA to +20mA |
| Output Voltage Range | +0.8V to +4.0V |
| Linearity | ± 0.09 % Full Scale, Maximum |
| Accuracy | ± 0.15 % Full Scale (± 0.3%Full Scale, Max.) |
| Power Supply | +5 VDC |
| Power Consumption | 25 mW |
| Operating Temperature | -40° C to 85° C |
| Input Connector | Two Terminals, lin(+) and lin(-), for Current Loop |
| Output Connector | RJ45 Jack to Converter using UTP Cat 5 wire |
| Mechanical Dimensions | 65(W) x 62(H) x 150(D) mm |
| Weight | 80 grams |

Features

- Converts current levels from 4 - 20 mA to 0.8 - 4.0 V voltage levels
- Maximum linearity of $\pm 0.09\%$
- Maximum accuracy of $\pm 0.3\%$
- Operates from a single +5 V DC Power Supply which powered by the sensorProbe
- Fully Rated Over the -40°C to 85°C Industrial Temperature Range
- 2 LED show status of the current loop and the power supply
- Up to two I-V converters per sensorProbe, up to 8 per sensorProbe8 and cameraProbe8
- VC00 can be extended to your desired cable length using one of our CAT5 extension cables, CABXX, or you can provide your own cable of any length up to 15 feet.

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