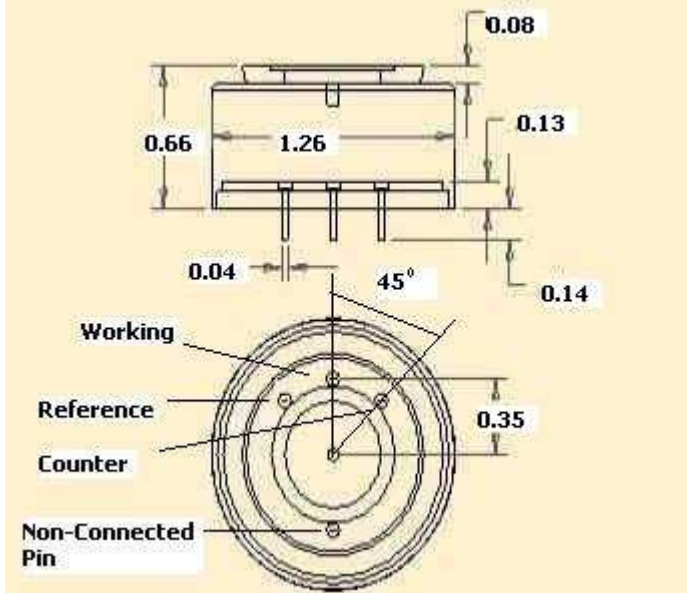


## R Series Nitrogen Dioxide Sensor – RNO2-100

|  |                                   |                               |
|--|-----------------------------------|-------------------------------|
|  <p>The drawing shows a cylindrical sensor with a top view and a side view. Dimensions include: top diameter 0.66, length 1.26, top thickness 0.08, side thickness 0.13, pin diameter 0.04, pin length 0.14, and a 45-degree chamfer. The top view labels the Working, Reference, Counter, and Non-Connected Pin electrodes, with a diameter of 0.35.</p> | <b>Mechanical Specifications</b>  |                               |
|  | Dimensions                        | All dimensions are in Inches. |
| Weight   | Approximately 10 gram             |                               |
| Material   | Polypropylene (body)              |                               |
| Electrolyte  | Acid                              |                               |
| Connections  | Gold Plated Pin                   |                               |
| Gas Supply   | Diffusion through porous membrane |                               |
| <p><b>Important Note:</b> Connection should be made via PCB sockets only. Soldering to the pins will render your warranty void.</p>  |                                   |                               |

|                             |   |
|-----------------------------|---|
| Measuring range             | 0-100 PPM   |
| Working Electrode Potential | -200 mv   |
| Output Signal, Span, 25 °C  | 0.120 ± 0.40 µA / PPM   |
| Lower Detection Limit       | < 1 PPM (depends on circuitry)                                  |
| Resolution                  | < ± 0.2 PPM (depends on circuitry)                              |
| Repeatability               | 1% of Signal  |
| Output Linearity            | Linear  |
| Response Time (t-90)        | < 60s typical at 20° C  |
| Stabilization time          | 60 minutes (first installed in a circuit); thereafter < 30 sec. |
| Operating Temperature       | -20 to 50° C (0 – 35° C recommended)                            |
| Operating Pressure Range    | 1.0 ± 0.2 atm (recommended)                                     |
| Operating Humidity Range    | 5 to 95% RH (0 to 100% non-condensing)                          |
| Estimated Service Life      | > 1 Years   |
| Storage Temperature         | 22° C Recommended   |
| Storage Pressure            | 1.0 ± 0.2 atm Recommended                                       |
| Storage Humidity Range      | 50% to 70% RH Recommended                                       |
| Storage Life                | 1 year in sealed package  |
| Warranty                    | One year (extended warranty available)                          |

Contact TTI for application information. TTI reserves the right to alter design features and specifications without notice.