

Gauge Repeatability and Reproducibility Report

Part No. & Name: OXGEN READER Gauge/Equip.: OXGEN READER
 Parameter/Characteristic: % OXGEN ID No:
 Specification: 1.5 Type:
 Study Date: Feb. 1, 2008

From data sheet : $\bar{R} = 2.5$ $\bar{X} = 0.53333$ $R_p = 1.16667$
 diff

| Measurement Unit Analysis | | | % Total Variation (TV) | |
|--|--|--|------------------------|------|
| Repeatability - Equipment Variation (EV) | | | % EV = 93.94 | |
| EV = 7.63 | | | | |
| | | | Trials | K |
| | | | 3 | 3.05 |
| Reproducibility - Appraiser Variation (AV) | | | % AV= 16.76 | |
| AV = 1.36 | | | n = number of parts | |
| | | | r = number of trials | |
| | | | Appraisers | K |
| | | | 2 | 3.65 |
| Repeatability & Reproducibility | | | % R&R= 95.43 | |
| R&R = 7.75 | | | Parts | K |
| | | | 2 | 3.65 |
| Part Variation (PV) | | | 3 | 2.7 |
| | | | 4 | 2.3 |
| PV = 2.43 | | | 5 | 2.08 |
| | | | 6 | 1.93 |
| Total Variation (TV) | | | 7 | 1.82 |
| | | | 8 | 1.74 |
| TV = 8.12 | | | 9 | 1.67 |
| | | | 10 | 1.62 |