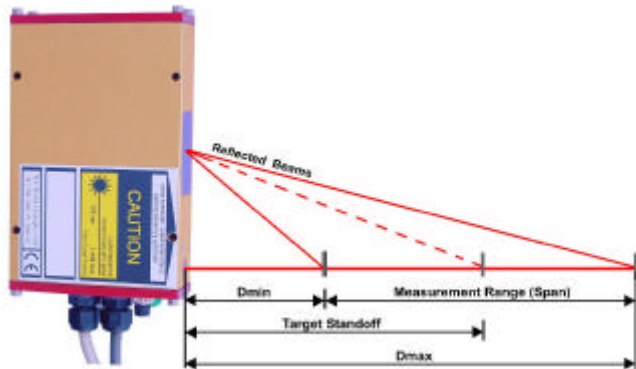




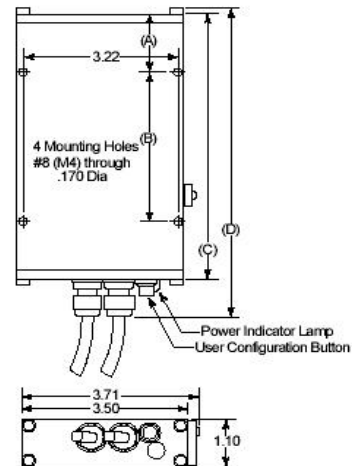
## ST203 OptiGAGE TECHNICAL SPECIFICATIONS

| MODEL No.                      | -0125   | -0250   | -0500   | -1     | -2     | -4     | -6          | -8     | -16    | -20XL  | -32    | -50   |
|--------------------------------|---|---------|---------|--------|--------|--------|-------------|--------|--------|--------|--------|-------|
| Measurement Range              | 0.125   | 0.25    | 0.5     | 1.0    | 2.0    | 4.0    | 6.0         | 8.0    | 16.0   | 20.0   | 32.0   | 50.0  |
| mm                             | 3.175   | 6.35    | 12.7    | 25.4   | 50.8   | 102    | 152         | 203    | 406    | 508    | 813    | 1270  |
| Dmin                           | 0.5   | 0.60    | 0.90    | 2.5    | 2.25   | 3.5    | 7           | 13     | 11.5   | 38     | 26     | 30    |
| mm                             | 12.7  | 15.2    | 22.9    | 63.5   | 57.2   | 89     | 178         | 330    | 292    | 965    | 660    | 762   |
| Target Standoff                | 0.5625  | 0.725   | 1.15    | 3.0    | 3.25   | 5.5    | 10.0        | 17.0   | 19.5   | 48.0   | 42.0   | 55.0  |
| mm                             | 14.288  | 18.415  | 29.21   | 76.2   | 82.55  | 139.7  | 254         | 432    | 495    | 1219   | 1067   | 1397  |
| Dmax                           | 0.625   | 0.85    | 1.40    | 3.5    | 4.25   | 7.5    | 13          | 21     | 27.5   | 58     | 58     | 80    |
| mm                             | 15.9  | 21.6    | 35.6    | 88.9   | 108.0  | 191    | 330         | 533    | 699    | 1473   | 1473   | 2032  |
| Accuracy at Standoff           |   |         |         |        |        |        |             |        |        |        |        |       |
| Standard models, ±0.1% microns | 0.000125  | 0.00025 | 0.0005  | 0.001  | 0.002  | 0.004  | 0.006       | 0.008  | 0.016  | 0.020  | 0.032  | 0.050 |
| mm                             | 3.18  | 6.35    | 12.70   | 25.4   | 50.8   | 102    | 152         | 203    | 406    | 508    | 813    | 1270  |
| Hi-Res Models, ±0.03% microns  | 0.00004   | 0.00008 | 0.00015 | 0.0003 | 0.0006 | 0.0012 | 0.0018      | 0.0024 | 0.0048 | 0.0060 | 0.0096 | 0.015 |
| mm                             | 0.95  | 1.9     | 3.8     | 7.6    | 15.2   | 30     | 46          | 61     | 122    | 152    | 244    | 381   |
| Resolution (micron)            |   |         |         |        |        |        |             |        |        |        |        |       |
| Standard models, 0.03%         | 0.95  | 1.9     | 3.8     | 7.6    | 15.2   | 30     | 46          | 61     | 122    | 152    | 244    | 381   |
| mm                             | 0.32  | 0.64    | 1.3     | 2.5    | 5.1    | 10     | 15          | 20     | 41     | 51     | 81     | 127   |
| Spot Diameter (micron)         |   |         |         |        |        |        |             |        |        |        |        |       |
| @ span center                  | 30  | 35      | 40      | 60     | 65     | 70     | 95          | 120    | 150    | 275    | 250    | 300   |
| @ Dmin & Dmax                  | 50  | 100     | 200     | 130    | 220    | 300    | 350         | 400    | 750    | 350    | 500    | 750   |
| Weight (oz., less cable)       | 19  |         |         |        |        |        | 22.5        |        | 36     |        | 50     |       |
| grams                          | 539   |         |         |        |        |        | 638         |        | 1021   |        | 1418   |       |
| Laser Class                    | II, 670nm   |         |         |        |        |        | IIIa, 670nm |        |        |        |        |       |
| Power                          | 12-24VDC (75mA @ 15V), 20mA added with current loop |         |         |        |        |        |             |        |        |        |        |       |
| Operating Temperature          | 0 to 50°C, negligible accuracy drift                |         |         |        |        |        |             |        |        |        |        |       |
| Sample Rates (configurable)    |   |         |         |        |        |        |             |        |        |        |        |       |
| Standard Resolution            | 1,250 samples/sec                                   |         |         |        |        |        |             |        |        |        |        |       |
| Hi-Res Model                   | 200 samples/sec                                     |         |         |        |        |        |             |        |        |        |        |       |

### OPERATIONAL TERMS



### MECHANICAL DIMENSIONS



| Model Number | -0125, -250, -0500, -1, -2, -4 | -6   | -8, -16 | -20XL, -32, -50 |
|--------------|--------------------------------|------|---------|-----------------|
| Dim (A)      | 1.30                           | 1.59 | 4.20    | 7.20            |
| Dim (B)      | 3.32                           | 4.30 | 4.50    | 10.50           |
| Dim (C)      | 5.90                           | 7.38 | 12.90   | 24.90           |
| Dim (D)      | 6.89                           | 8.39 | 13.89   | 25.89           |

