

UDW3-250 SPECIFICATIONS

The UDW3 is designed for accurate underwater force measurement. It has a fully waterproof design, complete with an internal pressure compensation bladder for accurate underwater measurements.



Units: Metric Capacity: 250

| | | | |
|-----------------------|--------------------------|--------------------------|--------------------------|
| Dimensions(LxDia.) | 88.9 x 75.44 mm | | |
| Weight | 2.05 Kg. | Sensing elements | Strain gage bridge |
| Channels | Fx, Fy, Fz, Mx, My, Mz | Amplifier | Required |
| Top plate material | Stainless Steel | Analog outputs | 6 Channels |
| Temperature range | -17.78 to 51.67°C | Digital outputs | None |
| Excitation | 10V maximum | Crosstalk | < 2% on all channels |
| Fx, Fy, Fz hysteresis | ± 0.2% full scale output | Fx, Fy, Fz non-linearity | ± 0.2% full scale output |

| Channel | Fx | Fy | Fz | Units | Mx | My | Mz | Units |
|--------------------------------|------|------|-------|---------|-------|-------|--------|------------|
| Capacity | 556 | 556 | 1112 | N | 28 | 28 | 14 | N-m |
| Sensitivity | 2.7 | 2.7 | 0.674 | µv/v-lb | 132.8 | 132.8 | 106.3 | µv/v-in-lb |
| Natural frequency | - | - | - | Hz | - | - | - | Hz |
| Stiffness (X 10 ⁵) | 52.6 | 52.6 | 745 | N/m | - | - | 0.0452 | N-m/rad |

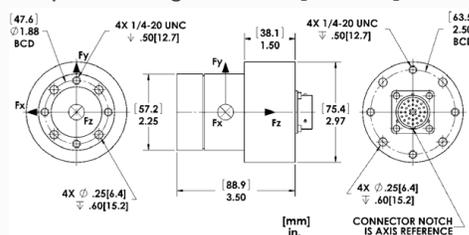
Resolution *To determine the resolution of your system, please use our [Output Calculator](#).*

Published specifications subject to change without notice.

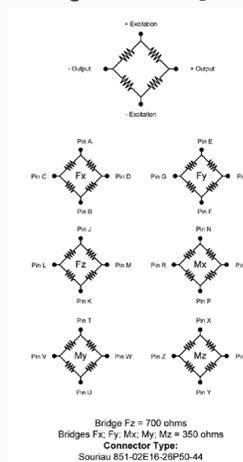
Last modified:10/22/201

TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)



UDW3-500 SPECIFICATIONS

The UDW3 is designed for accurate underwater force measurement. It has a fully waterproof design, complete with an internal pressure compensation bladder for accurate underwater measurements.



Units: Metric Capacity: 500

| | | | |
|-----------------------|--------------------------|--------------------------|--------------------------|
| Dimensions(LxDia.) | 88.9 x 75.44 mm | | |
| Weight | 2.05 Kg. | Sensing elements | Strain gage bridge |
| Channels | Fx, Fy, Fz, Mx, My, Mz | Amplifier | Required |
| Top plate material | Stainless Steel | Analog outputs | 6 Channels |
| Temperature range | -17.78 to 51.67°C | Digital outputs | None |
| Excitation | 10V maximum | Crosstalk | < 2% on all channels |
| Fx, Fy, Fz hysteresis | ± 0.2% full scale output | Fx, Fy, Fz non-linearity | ± 0.2% full scale output |

| Channel | Fx | Fy | Fz | Units | Mx | My | Mz | Units |
|--------------------------------|-------|-------|-------|---------|-------|-------|--------|------------|
| Capacity | 1112 | 1112 | 2224 | N | 56 | 56 | 28 | N-m |
| Sensitivity | 1.35 | 1.35 | 0.337 | µv/v-lb | 66.42 | 66.42 | 53.14 | µv/v-in-lb |
| Natural frequency | - | - | - | Hz | - | - | - | Hz |
| Stiffness (X 10 ⁵) | 105.2 | 105.2 | 1490 | N/m | - | - | 0.0904 | N-m/rad |

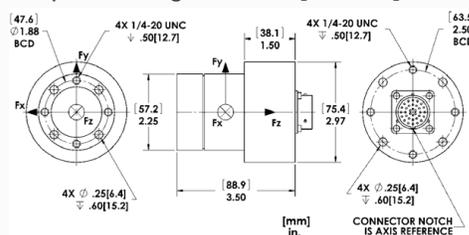
Resolution *To determine the resolution of your system, please use our [Output Calculator](#).*

Published specifications subject to change without notice.

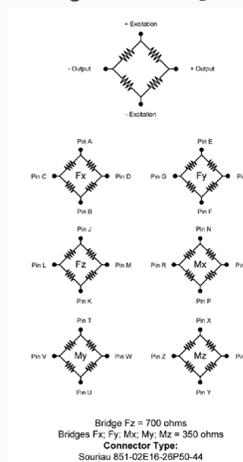
Last modified:10/22/201

TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)



UDW3-1000 SPECIFICATIONS

The UDW3 is designed for accurate underwater force measurement. It has a fully waterproof design, complete with an internal pressure compensation bladder for accurate underwater measurements.



Units: Metric Capacity: 1000

| | | | |
|-----------------------|--------------------------|--------------------------|--------------------------|
| Dimensions(LxDia.) | 88.9 x 75.44 mm | | |
| Weight | 2.05 Kg. | Sensing elements | Strain gage bridge |
| Channels | Fx, Fy, Fz, Mx, My, Mz | Amplifier | Required |
| Top plate material | Stainless Steel | Analog outputs | 6 Channels |
| Temperature range | -17.78 to 51.67°C | Digital outputs | None |
| Excitation | 10V maximum | Crosstalk | < 2% on all channels |
| Fx, Fy, Fz hysteresis | ± 0.2% full scale output | Fx, Fy, Fz non-linearity | ± 0.2% full scale output |

| Channel | Fx | Fy | Fz | Units | Mx | My | Mz | Units |
|--------------------------------|-------|-------|-------|---------|-------|-------|-------|------------|
| Capacity | 2224 | 2224 | 4448 | N | 113 | 113 | 56 | N-m |
| Sensitivity | 0.674 | 0.674 | 0.169 | µv/v-lb | 33.21 | 33.21 | 26.57 | µv/v-in-lb |
| Natural frequency | - | - | - | Hz | - | - | - | Hz |
| Stiffness (X 10 ⁵) | 210 | 210 | 2981 | N/m | - | - | 0.181 | N-m/rad |

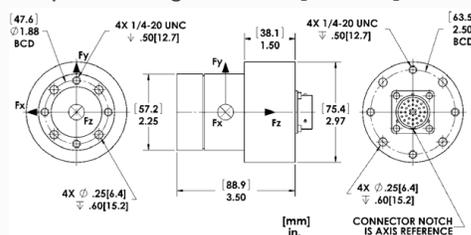
Resolution *To determine the resolution of your system, please use our [Output Calculator](#).*

Published specifications subject to change without notice.

Last modified:10/22/201

TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)

