

# General Specifications

**Bulletin No. GS-400**

- Revised 1 April 1999

## InSitu™ μ400 Strainlinks Overview For Machine/In-Die Force Measurement Applications



The *InSitu™μ400 Strainlink* is a hardened and reliable strain gauge sensor suitable for application on large machines such as stamping presses. It can also be used on large tools where high loads and mounting surface area matches specifications.

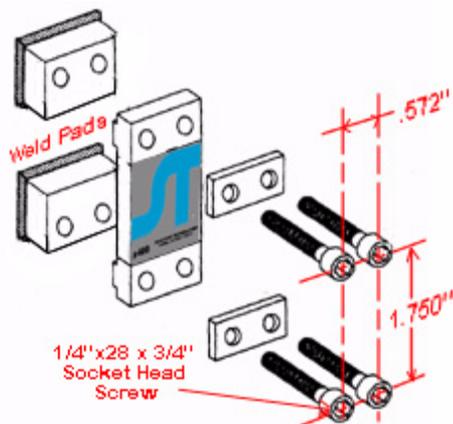
Featuring a reliable bonded strain gauge and mechanical properties designed to yield an electrical signal proportional to the load of the machine it is properly affixed to. Gauge is ungrounded making it suitable for instrumentation grade monitoring systems which feature differential inputs.

Includes strainlink, 30 feet of cable, mounting bolts. Optional weldpads, strainlink protective JIC enclosure, and drill/tap guide kit are available. Cable can be cut to length desired or it may be custom ordered in longer lengths.

### Specifications:

|   |   |
|---|---|
| <b>Excitation:</b>                          | 10VDC typical, 15VDC maximum  |
| <b>Temperature Effect:</b>                  | Output: 1% of load/100°F.; Zero: 2% of Rated Output/100°F   |
| <b>Rated Output (typical installation):</b> | 1mv/V @ 400μ-inches/inch  |
| <b>Rated Output Balance:</b>                | ±0.10mv/V   |
| <b>Maximum Rated Strain:</b>                | 600μ-inches/inch non-damaging   |
| <b>Material:</b>                            | 17-4PH Stainless Steel  |
| <b>Connection Cable:</b>                    | Std. 35ft. 4 conductor + Shield, oil resistant, poly jacket.<br>Optional lengths and types available. |
| <b>Dimensions:</b>                          | .3" thick x 1.0" wide x 2.20" tall  |

### Installation Details:



### Ordering Information:

#### Strain Gauge Part Numbers:

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Part Number w/1 foot cable:</b>   | <b>/400-1</b>             |
| <b>Part Number w/35 foot cable:</b>  | <b>/400-35 (Standard)</b> |
| <b>Part Number w/50 foot cable:</b>  | <b>/400-50</b>            |
| <b>Part Number w/75 foot cable:</b>  | <b>/400-75</b>            |
| <b>Part Number w/XXX foot cable:</b> | <b>/400-xxx</b>           |

(No custom lengths < than 100')

#### Accessory Items:

|                                      |                      |
|--------------------------------------|----------------------|
| <b>Weld-pad Kit, 1 per gauge:</b>    | <b>/400-WeldKit</b>  |
| (Needed for rough surfaces)          |                      |
| <b>Drill Guide Kit, 1 per site:</b>  | <b>/400-GuideKit</b> |
| (Highly Recommended)                 |                      |
| <b>JIC Box Kit for conduit runs:</b> | <b>/400-JIC</b>      |

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