**Cotización de células de carga**

Las incertidumbres fueron calculadas como:

Donde son los errores combinados, efectos de la temperatura en la medición y deriva del cero

Se tomó 20 °C

**Conc.:**

1,00 kg – 7,00 kg 10 g @1%

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Célula** | **Carga máxima** | **Error (%FS)** | **Error (g)** | **Precio ($)** | **Link** |
| VIR VLC134 10kg | 10 kg | 0,11 | 11 | 56 | <http://www.loadcellsonline.com/virtual-vlc134-single-point-aluminum-load-cell/> |
| TAS606A | 5 kg | 0,99 | 50 | En proceso | http://www.htc-sensor.com/products/163.html |
| TAS606 | 5 kg | 0,99 | 50 | $58 | https://es.aliexpress.com/item/1kg-2kg-5kg-miniature-compression-button-type-load-cell-force-sensor-weigt-sensor-TAS606-1/32471702549.html |
| RB-Phi-118 | 5 kg | 0,17 | 8,3 | 7 | https://www.robotshop.com/media/files/pdf/datasheet-3133.pdf |
| load cell SEN 7344-6kg | 6 kg | 0,02 | 1,2 | 124 | <http://www.scalemarket.com/Aluminum-Single-Point-LOad-Cell-Sentronik-7344-300g-600g-1kg-2kg-3kg-6kg.html> |
| VIR VLC134 6kg | 6 kg | 0,02 | 1,2 | 56 | <http://www.basculas.us/product.php?productid=224> |
| VLPA | 25 lb | 0,52 | 57 | 423 | <https://www.800loadcel.com/load-cells/miniature-load-cells/subminiature-button-load-cell.html> |

**Adic.:**

0,200 a 2,000 kg 5 g @1%

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Célula** | **Carga máxima** | **Error (%FS)** | **Error (g)** | **Precio ($)** | **Link** |
| VIR VLC134 3kg | 3 kg | 0,11 | 3,3 | 56 | <http://www.loadcellsonline.com/virtual-vlc134-single-point-aluminum-load-cell/> |
| VIR 131 5lb | 5 lb | 0,12 | 3 | 63 | <http://www.loadcellsonline.com/virtual-vlc131-aluminum-single-point/> |
| SEN 7344-600g | 0,6 kg | 0,02 | 0,12 | 124 | http://www.scalemarket.com/Aluminum-Single-Point-LOad-Cell-Sentronik-7344-300g-600g-1kg-2kg-3kg-6kg.html |
| Weight Sensor (Load Cell) 0-3kg | 3 kg | 0,336 | 1,01 | 9,95 | <https://www.seeedstudio.com/Weight-Sensor-%28Load-Cell%29-0-3kg-p-2086.html>  Nota: Se alimenta entre 10 a 15 V |
| Sentran LCC YB-B Series | 3 kg | 0,04 | 0,12 | En espera | http://www.sentranllc.com/products/load-cells/single-points/yb.htm |
| Differential Load Cell – 3kg | 3 kg | 0,21 | 6,3 | 5,95+3,99 | https://ns-electric.com/product/differential-load-cell-3kg/ |
| Forzentek FMZW | 3 kg | 0,61 | 18,24 | 75+60 | http://www.forsentek.com/down/small%20load%20cell%20FMZW.pdf |
| Forzentek FH03 | 3 kg | 0,08 | 2,51 | 75+60 | http://www.forsentek.com/down/loadcell%20sensor%20FH03.pdf |

**Min.:**

50 g – 150 1 g @2%

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Célula** | **Carga máxima (kg)** | **Error (%FS)** | **Error (g)** | **Precio ($)** | **Link** |
| SEN 7252-300 g | 0,3 | -- | - | 128 | http://www.scalemarket.com/Aluminum-Single-Point-Load-Cell-Sentronik-7252-100g-200g-300g-500g-1kg-2kg-3kg-5kg.html |
| CZL639HD | 0,1 | 0,2 | 0,2 | 7 | <https://www.phidgets.com/?tier=3&catid=9&pcid=7&prodid=230> |
| F-25 | 0,05 – 0.1 | 0,2 | 0,1 | 295 | https://www.omega.com/pressure/pdf/LC\_SELGUIDE.pdf |
| SEN 128A | 0,5 | 0,16 | 0,829 | 17 | https://www.robotshop.com/en/micro-load-cell.html |

<https://measurementsensors.honeywell.com/ProductDocuments/Load/Model_31_Datasheet.pdf> No se encontró el precio.

<https://www.tecsis.us/force-load/compression-load-cells/miniature-compression-load-cells/subminiature-compression-load-cell.html>

No se encontró el precio.

**Lev.:**

5 g 0,1 g @2%

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Célula** | **Carga máxima (g)** | **Error (%FS)** | **Error (g)** | **Precio ($)** | **Link** |
| LSB200 | 10 | 0.8 | 0,08 | En espera | [**https://www.dataq.com/products/load-cell/load-cell-lsb200.html**](https://www.dataq.com/products/load-cell/load-cell-lsb200.html) |
| \* | 500 | 0,002 | 0,01 | 11,50 | https://www.ebay.com/itm/Electronic-Digital-Mini-Scale-Weighing-JEWELRY-PLATFORM-Kitchen-500g-0-01g/183172727320?hash=item2aa5f20218:g:GTUAAOSwC7RazRLb |
| \* | 500 | 0,02 | 0,01 | 12,99 | https://www.amazon.com/GDEALER-Digital-Kitchen-0-001oz-Stainless/dp/B01E6RE3A0/ref=sr\_1\_1?s=industrial&ie=UTF8&qid=1529013350&sr=1-1&keywords=scale+0%2C01 |
|  | 300 | 0,01 | 0,04 | 9,82+Shipping | https://www.amazon.com/Electronic-Balance-Weighing-Sensor-0-300g/dp/B007Q9WMV8 |

\*Se piensa desarmarla para sacar la célula de carga.