



GS-KMT Load Cells



# GS-KMT Model GK2126 S Type 25kg to 20,000kg Load Cell



GK2126-100kg shown

## KEY FEATURES

- Very Wide range of Popular Capacities from a Low 25kg to a High 20,000kg
- High Grade Tool Steel Construction Electroless Nickel Plated.
- High Level 3mV/V Outputs.
- High Accuracy 0.02% Combined Error.
- Use in TENSION or COMPRESSION.
- Load Cells 100% tested to guarantee all load & thermal specifications are met.
- UNF and Metric Threads INCLUDING Coarse Pitch M20x2.5P & M24x3P

## APPLICATIONS

- Tension/Compression Calibration Rigs.
- Hopper filling and level control.
- Hanging Tank and Bin Weighing.
- Food and Chemical Industry.
- General Force Measurement.
- Cement & Concrete Industry.

## Specifications

|                                     |                 |
|-------------------------------------|-----------------|
| Capacity . . . . .                  | 25kg - 20,000kg |
| Safe Service Load . . . . .         | 100% Capacity   |
| Safe Overload . . . . .             | 150% Capacity   |
| Ultimate Load . . . . .             | 300% Capacity   |
| Safe Side Load . . . . .            | 150% Capacity   |
| Full Load Output . . . . .          | 3mV/V ± 1.7%    |
| Combined Error . . . . .            | <0.02% FS       |
| Non Repeatability . . . . .         | <0.02% FS       |
| Creep/Zero Return (30min) . . . . . | <0.03% FS       |
| Zero Balance. . . . .               | <1% FS          |
| Span temperature effect. . . . .    | <15ppm/°C       |
| Zero temperature effect . . . . .   | <26ppm/°C       |
| Compensated Range . . . . .         | -10°C to +40°C  |
| Operating Range . . . . .           | -40°C to +65°C  |

|   |                    |
|---|--------------------|
| Environmental Protection Rating . . . . . | IP67               |
| Material (standard) . . . . .             | Tool Steel         |
| Material (optional) . . . . .             | 17-4PH Stainless   |
| Plated Finish (standard). . . . .         | Electroless Nickel |
| Sealing . . . . .                         | Silicon Bonded     |
| Input Resistance . . . . .                | 385Ω ± 15Ω         |
| Output Resistance . . . . .               | 350Ω ± 3Ω          |
| Insulation Resistance . . . . .           | >5,000MΩ           |

|                                    |               |
|------------------------------------|---------------|
| Excitation (Recommended) . . . . . | 5VDC to 10VDC |
| Excitation (Maximum) . . . . .     | 15VDC         |

Cable type ... 5mm OD 4 core screened.  
 Cable length 6 metres  
 Cable Entry...Gland & Cable Strain Relief Tube.  
 {Spring Cable Entry available on Special Order.}

# Description & Ordering

**Description:-** The Gedge Systems-KMT Mechtronix GK2126 S type Load Cell has been designed from the ground up to offer class leading long term performance in harsh environments. It is part of a very large range of High Quality Load Cells brought to Australia & New Zealand by Joint Venture Partners Gedge Systems & KMT Mechtronix.

The GK2126 S type is constructed with care in the finest Alloy Tool Steel available for Load Cell Construction and Electroless Nickel Plated for Corrosion Resistance. 17-4PH Stainless Steel models are also available. It is available in Metric and Imperial Capacities with popular International Standard Metric and Imperial UNF threads - this and its standard size make its use in current applications with existing fittings an easy reality. The GK2126 is a Load Cell for Weighing and Tension Measurement now and into the Future.

**Accessories.** Refer to the GS-KMT Accessories Brochure for full details of Accessories including Junction Boxes and Rod End Bearings. **For Ordering see Table to the Right.**

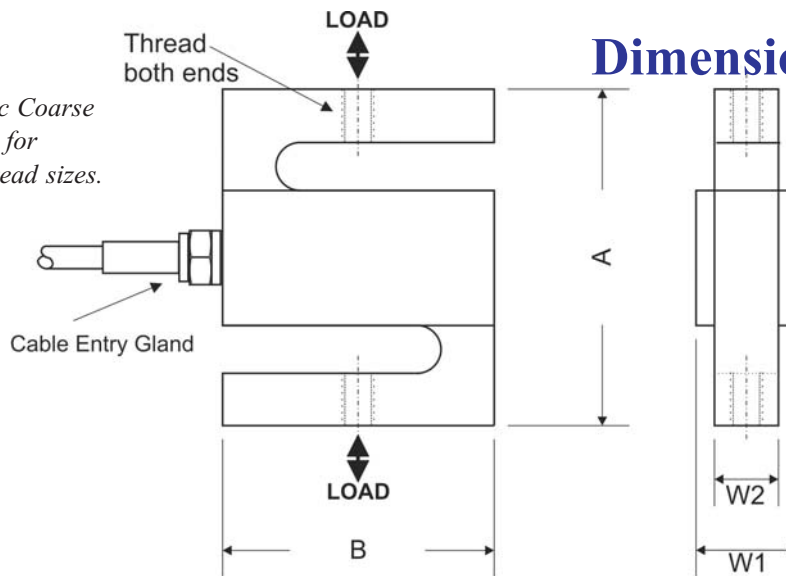
*"MC" models have Metric Coarse threads.*

| METRIC P/N | kg     | UNF P/N    | LB     |
|------------|--------|------------|--------|
| GK2126-25  | 25     | GK2126P50  | 50     |
| GK2126-50  | 50     | GK2126P100 | 100    |
| GK2126-100 | 100    | GK2126P200 | 200    |
| GK2126-200 | 200    | GK2126P250 | 250    |
| GK2126-250 | 250    | GK2126P500 | 500    |
| GK2126-500 | 500    | GK2126P750 | 750    |
| GK2126-700 | 700    | GK2126P1K  | 1,000  |
| GK2126T1   | 1,000  | GK2126P2K  | 2,000  |
| GK2126T1.5 | 1,500  | GK2126P3K  | 3,000  |
| GK2126T2   | 2,000  |            |        |
| GK2126T2MC | 2,000  |            |        |
| GK2126T2.5 | 2,500  | GK2126P5K  | 5,000  |
| GK2126T3   | 3,000  |            |        |
| GK2126T5   | 5,000  | GK2126P10K | 10,000 |
| GK2126T5MC | 5,000  |            |        |
| GK2126T7   | 7,000  | GK2126P15K | 15,000 |
| GK2126T7MC | 7,000  |            |        |
| GK2126T10  | 10,000 | GK2126P20K | 20,000 |
| GK2126T20  | 20,000 |            |        |

**GEDGE SYSTEMS - Since 1978 Australia's Leading Manufacturer of High Accuracy Weighing Electronics now bringing you Superior Quality GS-KMT Load Cells**

## Dimensions GK2126

*"MC" models have Metric Coarse Threads. See table above for models and below for thread sizes.*



Dimensions in mm unless shown as inches

| Cap kg        | Cap lb       | A         | B      | W1       | W2       | Thread(metric)                         | Thread(unf)  |
|---------------|--------------|-----------|--------|----------|----------|--|--------------|
| 25 - 100      | 50 - 200     | 63/2.5"   | 51/2"  | 19/0.75" | 12/0.5"  | M6x1P                                  | 1/4"-28UNF   |
| na            | 250          | 3"        | 2"     | 0.75"    | 0.75"    |  | 3/8"-24UNF   |
| 150 - 500     | 500-1,500    | 75/3"     | 51/2"  | 19/0.75" | 19/0.75" | M12x1.75P                              | 1/2"-20UNF   |
| 700 - 1,500   | 2,000-3,000  | 75/3"     | 51/2"  | 25/1"    | 25/1"    | M12x1.75P                              | 1/2"-20UNF   |
| 2,000 - 5,000 | 5,000-10,000 | 108/4.25" | 76/3"  | 25/1"    | 25/1"    | M20x1.5P<br>"MC" 2t&5t are<br>M20x2.5P | 3/4"-16UNF   |
| 7,000         | 15,000       | 140/5.5"  | 102/4" | 32/1.25" | 32/1.25" | M20x1.5P<br>"MC" M24x3P                | 1"-14UNF     |
| 10,000        | 20,000       | 178/7"    | 127/5" | 50/2"    | 50/2"    | M30x2                                  | 1 1/4"-12UNF |
| 20,000        | na           | 190       | 160    | 60       | 60       | M36x3P                                 |              |

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