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S LOAD CELL

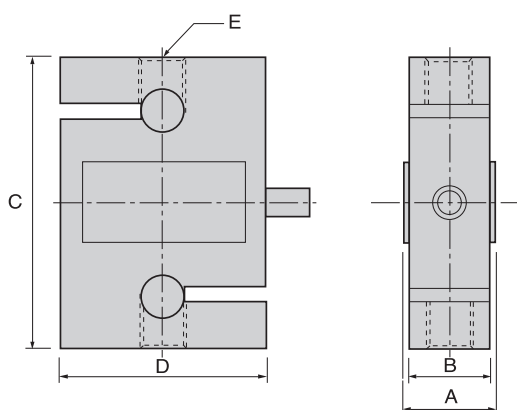
本 S 型荷重元 (S Load Cell) 系統常用的荷重元，由於固定點與施力點在同一軸線上，安裝容易並且體積小，成本較低；本型荷重元本體採用高強度合金鋼 (100kg 以下為鋁合金) 並以完全密封方式保護感應元件，因此非常精確耐用；特別適用於吊秤、精確重量、力量量測及自動控制上，具以下之特點：

This is general s-type Load cell. Ideal for use in truck scales, general weight measurement and automatic weight control units.

特點 Features

- 高精準度 High accuracy
- 溫度補償 Thermally compensated
- 密封保護 Moisture or Hermetically sealed
- 低價格 Low cost
- S-1, 2, 3, 5, 10, 20, 35, 50, 100, 200, 350, 500, 750, 1000, 1500, 2000, 3000, 5000, 7500kg, 10T

Installation Dimensions



TYPE	A	B	C	D	E
S-1	20	15	70	50	M8 × 1.25
S-2					
S-5					
S-10					
S-20					
S-35					
S-50	19	15	70	50	M12 × 1.75
S-100					
S-200					
S-350					
S-500	22	18	70	50	M12 × 1.75
S-750					
S-1000					
S-2000	29	26	84	63	M16 × 2.0
S-3000					
S-5000	35	31	100	65	M20 × 2.5
S-7500	48	44	130	90	M30 × 3.5
S-10T					

Specification

額定輸出 Rated Output	2.0mV/V(S1,2 1.0mV/V)
總和誤差 Total Error	0.05%
重現性 Repeatability	0.03%
潛變 Creep	0.05%/30min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%Load/10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	150%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)/Black(-) Output:Green(+)/White(-)

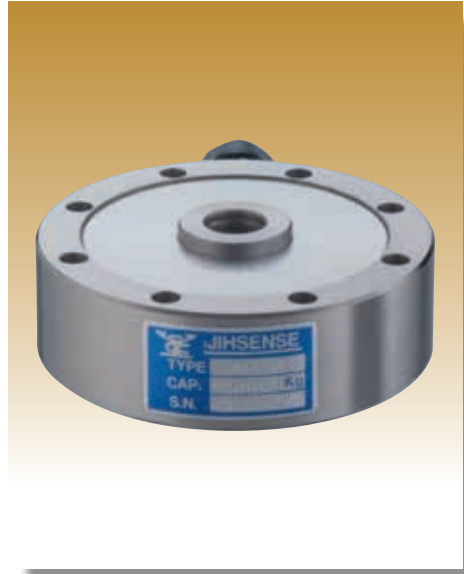
LM LOAD CELL

本 LM 型荷重元 (LM Load cell) 系最常用的力量量測荷重元，由於大面積穩固的底座以及極低的高度，並配上高敏度剪力感應結構及完全密封保護，使荷重感應達到最高之精度與敏感度，因此特別適用於精確重量測、力量測試、地磅及自動控制上，具以下之特點：

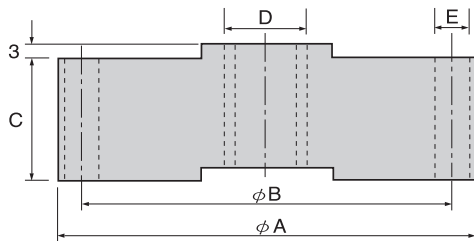
This type load cell is ideal for use in truck scales, weight, force measurement and automatic weight control units.

特點 Features

- 低而穩固 Low profile
- 高精密 High accuracy
- 抗壓雙向 Tension and compression
- 溫度補償 Thermally compensated
- 低側向誤差 Resistance to extraneous forces
- 密封保護 Hermetically sealed
- LM-2.5, 5, 10, 25, 50, 100, 250, 500, 1t, 2t, 3t, 5t, 10t, 20t, 30t, 50t, 100t, 200t



Installation Dimensions



TYPE	A	B	C	D	E
LM-2.5 LM-100	75	60	20	M10 × 1.5	4 φ 7.0
LM-250 LM-3T	105	89	29	M16 × 2.0	8 φ 7.0
LM-5T	105	89	32	M16 × 2.0	8 φ 7.0
LM-10T LM-20T	154	130	45	M33 × 2.0	12 φ 11
LM-30T LM-50T	197	165	50	M42 × 2.0	16 φ 13
LM-100T	280	229	77	M72 × 2.0	16 φ 17.5
LM-200T	280	229	96	M72 × 2.0	16 φ 17.5

Specification

額定輸出 Rated Output	2.0mV/V(LM2.5~100 1.5mV/V)
總和誤差 Total Error	0.05%
重現性 Repeatability	0.03%
潛變 Creep	0.05%/30min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%Load/10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	150%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)Black(-) Output:Green(+)White(-)

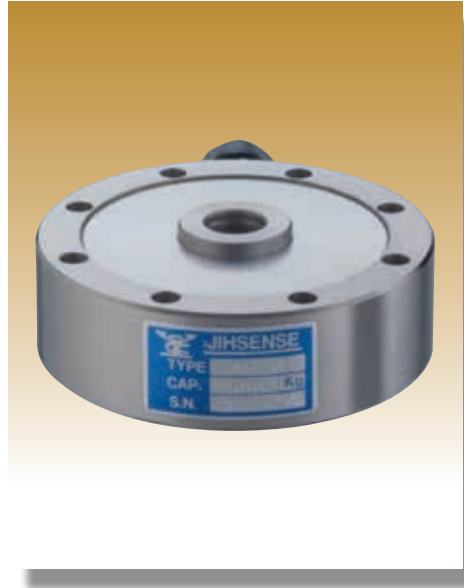
L LOAD CELL

本 L 型荷重元 (L Load cell) 系最常用的力量量測荷重元，由於大面積穩固的底座以及極低的高度，並配上高敏度剪力感應結構及完全密封保護，使荷重感應達到最高之精度與敏感度，因此特別適用於精確重量測、力量測試、地磅及自動控制上，具以下之特點：

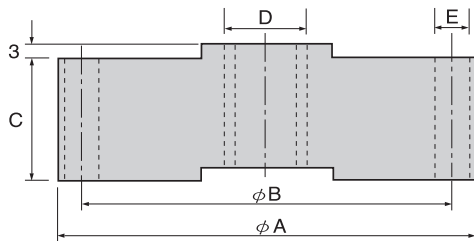
This type load cell is ideal for use in truck scales, weight, force measurement and automatic weight control units.

特點 Features

- 低而穩固 Low profile
- 高精密 High accuracy
- 抗壓雙向 Tension and compression
- 溫度補償 Thermally compensated
- 低側向誤差 Resistance to extraneous forces
- 密封保護 Hermetically sealed
- L-10, 25, 50, 100, 250, 500, 1t, 2t, 3t, 5t, 10t, 20t, 30t, 50t



Installation Dimensions



TYPE	A	B	C	D	E
L-250 ∨ L-3T	105	89	29	5/8"×18UNF	8 φ 7.0
L-5T	105	89	32	5/8"×18UNF	8 φ 7.0
L-10T ∨ L-20T	154	130	45	1 1/4"×12UNF	12 φ 11
L-30T ∨ L-50T	197	165	50	1 3/4"×12UNF	16 φ 13

Specification

額定輸出 Rated Output	2.0mV/V
總和誤差 Total Error	0.05%
重現性 Repeatability	0.03%
潛變 Creep	0.05%/30min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%Load/10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	150%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)Black(-) Output:Green(+)White(-)

ML LOAD CELL

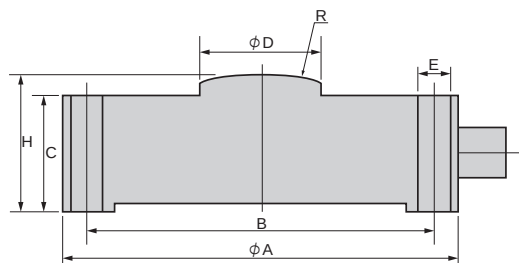
ML 荷重元係高精度力量感測器，使用應變規為感測元件，變形量小，精度高；所有感測電路均藏於金屬彈性體內，完全密封保護，不受外界干擾，穩定性高；具以下之特點：

ML Loadcell is a precision and small loadcell. It is compact and small. The sensing element is imbedded inside the structure and hermetically sealed. It is ideally used in force control machine, scales and general weight measurement.

特點 Features

- 高精度 Precision
- 剛性強 Rigid
- 溫度補償 Thermally compensated
- 整體密封保護 Hermetically Sealed
- ML- 2.5, 5, 10, 25, 50, 100, 250, 500, 1t, 2t, 3t kg

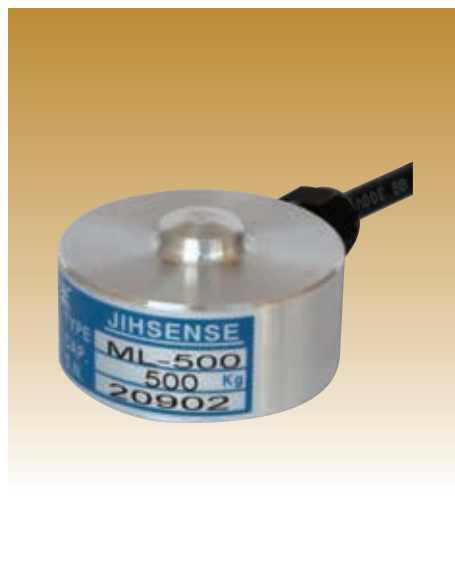
Installation Dimensions



額定荷重 (kg)	A	B	C	H	D	R	E
2.5, 5, 10, 25	35	31	15	18	5	20	4 × M2.5
50, 100, 250	40	35	17	20	8	30	4 × M3
500, 1t, 2t, 3t	50	44	22	25	12	40	4 × M4

Specification

額定輸出 Rated Output	1.5mV/V
總和誤差 Total Error	0.1%
重現性 Repeatability	0.05%
潛變 Creep	0.05%/20min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	10V
建議輸入電壓 Recommended Excitation Voltage	3-8V
溫度被償範圍 Compensated Temp. Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%Load/10°C
零點平衡 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	150%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)Exci : Black(-)Exci Output:Green(+)Sign White(-)Sign



MLT LOAD CELL

MLT 荷重元係高精度力量感測器，使用應變規為感測元件，變形量小，精度高；所有感測電路均藏於金屬彈性體內，完全密封保護，不受外界干擾，穩定性高；體積非常小，容易安裝於結構體內，具以下之特點：

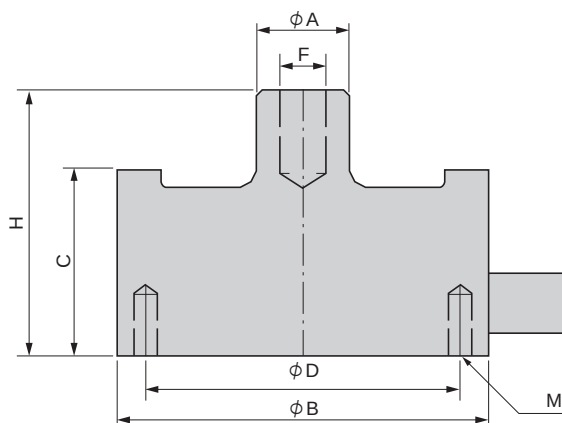
MLT Loadcell is a precision and tinny loadcell. It is very compact and small. The sensing eleam is imbedded inside the structure and hermetically sealed. It is easily install in the structure. It is ideally used in force control automatic machine.

特點 Features

- 拉壓雙向 Bidirectional Rally
- 剛性強 Rigid
- 低雜訊 Noise Free
- 整體密封保護 Hermetically Sealed
- MLT- 2.5, 5, 10, 25, 50, 100, 250, 500, 1000 kg



Installation Dimensions



額定荷重 (kg)	A	B	C	H	F	D	M
2.5, 5, 10, 25	6	35	12	18	M4×0.7	31	4×M2.5
50, 100, 250	8	40	15	24	M5×0.8	34	4×M3
500, 1000	14	50	18	30	M10×1.5	42	4×M6

Specification

額定輸出 Rated Output	1.0mV/V
非線性 Non-linear	0.2%
輸入阻抗 Input Resistance	400 ± 50Ω
輸出阻抗 Output Resistance	350Ω
最大輸入電壓 Max. Excitation Voltage	7.5V
建議輸入電壓 Recommended Excitation Voltage	3-5V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.1%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.05%Load/10°C
零點平衡 Zero Balance	±5%R.O.
容許負荷 Safe Overload Rating	150%
接線方式 Cable Connection	Input:Red(+)Exci : Black(-)Exci Output:Green(+)Sign White(-)Sign

MT MINI LOAD CELL

MT 迷你荷重元係高精度力量感測器，使用應變規為感測元件，變形量小，精度高；所有感測電路均藏於金屬彈性體內，完全密封保護，不受外界干擾，穩定性高；體積非常小，容易安裝於結構體內，具以下之特點：

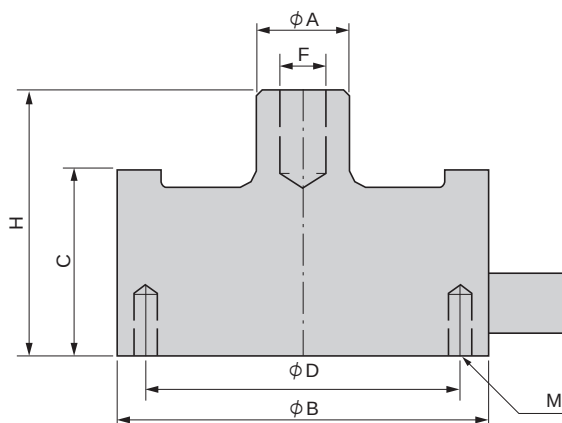
MT Loadcell is a precision and tinny loadcell. It is very compact and small. The sensing eleam is imbedded inside the structure and hermetically sealed. It is easily install in the structure. It is ideally used in force control automatic machine.

特點 Features

- 拉壓雙向 Bidirectional
- 剛性強 Rigid
- 低雜訊 Noise Free
- 整體密封保護 Hermetically Sealed
- MT- 2.5, 5, 10, 25, 50, 100, 250, 500, 1000 kg



Installation Dimensions



額定荷重 (kg)	A	B	C	H	F	D	M
2.5, 5, 10, 25	6	24	10	18	M4×0.7	20	4×M2.5
50, 100, 250	8	32	13	24	M5×0.8	27	4×M3
500, 1000	14	42	15	30	M10×1.5	35	4×M5

Specification

額定輸出 Rated Output	1.0mV/V
非線性 Non-linear	0.5%
輸入阻抗 Input Resistance	400 ± 50Ω
輸出阻抗 Output Resistance	350Ω
最大輸入電壓 Max. Excitation Voltage	7.5V
建議輸入電壓 Recommended Excitation Voltage	3-5V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.1%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.05%Load/10°C
零點平衡 Zero Balance	±5%R.O.
容許負荷 Safe Overload Rating	150%
接線方式 Cable Connection	Input:Red(+)Exci : Black(-)Exci Output:Green(+)Sign White(-)Sign

MC MINI LOAD CELL

MC 迷你荷重元係高精度力量感測器，使用應變規為感測元件，變形量小，精度高；所有感測電路均藏於金屬彈性體內，完全密封保護，不受外界干擾，穩定性高；體積非常小，容易安裝於結構體內，具以下之特點：

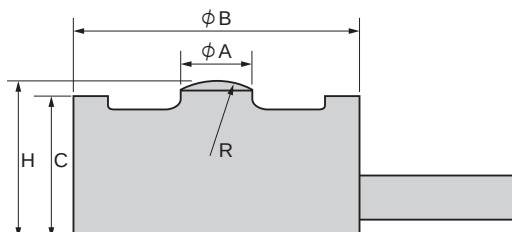
MC Loadcell is a precision and tinny loadcell. It is very compact and small. The sensing eleam is imbedded inside the structure and hermetically sealed. It is easily install in the structure. It is ideally used in force control automatic machine.

特點 Features

- 體積小 Tinny
- 剛性強 Rigid
- 低雜訊 Noise Free
- 整體密封保護 Hermetically Sealed
- MC- 2.5, 5, 10, 25, 50, 100, 250, 500, 1000, 2000 kg



Installation Dimensions



額定荷重 (kg)	A	B	C	H	R
2.5, 5, 10, 25	3	16	10	11	20
50, 100, 250	5	20	12	13	30
500, 1t, 2t	8	24	13	15	40

Specification

額定輸出 Rated Output	1.0mV/V
總和誤差 Total Error	0.5%
重現性 Repeatability	0.1%
潛變 Creep	0.1%/20min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	5V
建議輸入電壓 Recommended Excitation Voltage	3-5V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.1%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.05%Load/10°C
零點平衡 Zero Balance	±5%R.O.
容許負荷 Safe Overload Rating	120%
導線長度 Cable Length	2m
接線方式 Cable Connection	Input:Red(+)Exci : Black(-)Exci Output:Green(+)Sign White(-)Sign

BEAM LOAD CELL

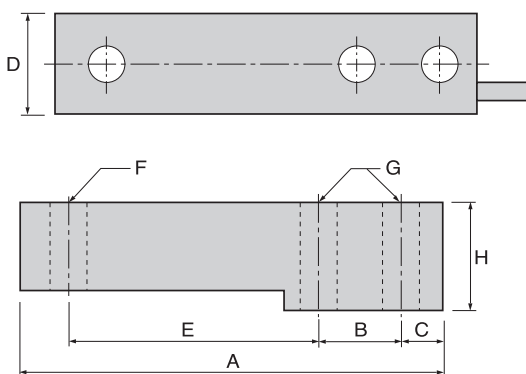
樑式荷重元 (B Load cell) 系常用的地磅荷重元，其高敏感度剪刀感應結構及完全密封式保護，使荷重感應達到最高之精密與敏感度，特別適用於地磅、吊秤、重量、力量量測及自動控制上，具以下之特點：

This is a shear beam type load cell. It is hermetically sealed and ideal for use in high accuracy truck scales, and automatic weighing machines.

特點 Features

- 高精度 High accuracy
- 溫度補償 Thermally compensated
- 密封保護 Hermetically sealed
- B10, 20, 35, 50, 100, 200, 350, 500, 1000, 2000, 3000, 5t, 7.5t, 10t

Installation Dimensions



TYPE	A	B	C	D	E	F	G	H
10 ~ 50	108	20	12	25	66	M8 × 1.25	φ6.3	28
100 ~ 2000	135	30	19	31	70	M12 × 1.75	φ13	31
3000 ~ 5000	175	38	24	37	95	M16 × 2.0	φ20	37
7500 ~ 10000	190	50	24	48	92	M24 × 3.0	φ26	48

Specification

額定輸出 Rated Output	3.0mV/V(B10~350 2.0mV/V)
總和誤差 Total Error	0.05%
重現性 Repeatability	0.03%
潛變 Creep	0.05%/20min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%Load/10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	150%
導線長度 Cable Length	2m
接線方式 Cable Connection	Input:Red(+)Black(-) Output:Green(+)White(-)

LDB ONE POINT LOAD CELL

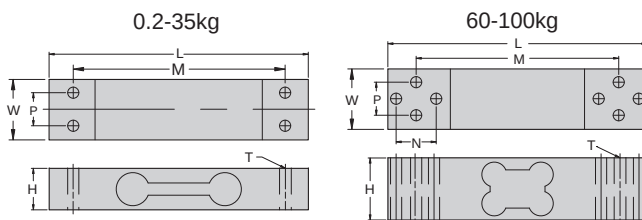
本荷重元係專為平台秤重單元所設計之荷重元，採扁平式之結構設計，以降低秤重單元之高度，使用高強度鋁合金材料，感應部份全部以矽膠密封保護。特別適用於秤台及工業秤重之需求，具以下之特點：

This Load cell is specially designed for platform weighing scale. The low-profile construction reduces weighing scale dimensions. Uses high strength aluminum alloy as spring element. The sensor elements are fully protected by a silicon coating. That is suitable for use in platform scales or industrial weighing applications.

特點 Features

- 扁平式結構 Low profile
- 封膠保護 Silicon coating protection
- 低偏心誤差 Low Corner error
- 防塵防潮 Moisture and protection
- LDB0.2, 0.4, 0.6, 1, 2, 3, 6, 10, 15, 20, 30, 60, 100, 200

Installation Dimensions



Capacity (kg)	L	M	N	W	P	H	T	台面 Platform
0.3/0.6/1/2	70	58	---	15	7	22	M3×0.5	200×200
3/6/10/20	130	106	---	30	15	22	M6×1.0	250×250
30/45	130	106	---	30	15	22	M6×1.0	300×300
60/100/200	150	117	19	35	15	40	M6×1.0	400×400

Specification

額定輸出 Rated Output	2.0mV/V(LDB0.2~1 1.0mV/V)
總和誤差 Total Error	0.05%
重現性 Repeatability	0.03%
潛變 Creep	0.05%/30min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%Load/10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	150%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)Black(-) Output:Green(+)White(-)

LRM LOAD CELL

本 LRM 型荷重元 (LRM Load cell) 施力點與固定點在同一軸線上，並採用圓柱型結構，安裝容易且非常穩固，本型荷重元並以外殼保護感應部份，非常精確，堅固耐用。適用於吊秤及各式重量及力量量測上，具以下之特點：

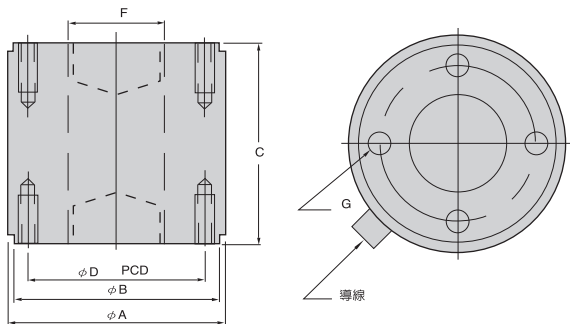
This LRM type load cell let force and support point at the same axis. And it is spherically constructed, So it is very stable and easy to install. The sensing element is protected by an outer shell. Very high precession, rigid and durable.

特點 Features

- 控壓兩用 Tension and compression
- 結構穩固 Stable and rigid
- 高精度 Precise
- 安裝容易 Easy installation
- LRM-2, 5, 10, 20, 35, 50, 100, 200, 350, 500, 1t, 2t, 3t, 5t, 10t Kg



Installation Dimensions



Capacity (kg)	A	B	C	D	F	G
2~50	63	54.7	60	44	M8×1.25×12deep	(4)M4×0.7×8deep
100 ~ 1T	63.5	54.7	80	44	M12×1.75×16deep	(4)M5×0.8×8deep
2T~3T	83	73	100	50	M16×2.0×20deep	(4)M10×1.5×15deep
5T	88	78	120	55	M20×2.0×25deep	(4)M12×1.75×18deep
10T	115	105	180	70	M30×2.0×40deep	(4)M12×1.75×18deep

Specification

額定輸出 Rated Output	2mV/V
總和誤差 Total Error	0.05%
重現性 Repeatability	0.05%
潛變 Creep	0.05%/20min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp. Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%/10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%/10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	150%
接線方式 Cable Connection	Input: Red(+) Black(-) Output: Green(+) White(-)

LCH LOAD CELL

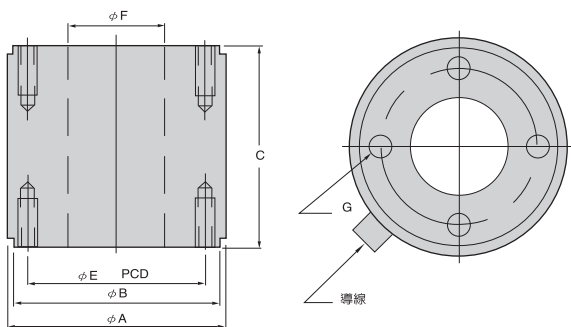
LCH 荷重元系專為壓入或退出力量量測而設計之荷重元，採用圓柱型直壓式結構，體積小、剛性強、結構穩固，一體成形設計，簡潔美觀，堅固耐用。非常適用於壓入力量量測上，具以下之特點：

LCH Load Cell is specially designed for press in and out force measurement. Spherical construction, small size and rigid. One part design simple and good shape, strong and durable. Ideal for use in fitting force control.

特點 Features

- 純壓式 Compression only
- 體積小 Small size
- 高剛性 Rigid
- 安裝容易 Easy installation
- LCH-200, 350, 500, 1t, 2t, 3t, 5t, 10t, 20t, 30t, 50t

Installation Dimensions



Capacity (kg)	A	B	C	E	F	G
200 350 500	43	35	50	24	10	(4)M4×0.7×8deep
1T 2T 3T 5T	63	54.7	70	44	18	(4)M5×0.8×8deep
10T	63	54.7	80	44	18	(4)M5×0.8×8deep
20T	88	78	100	50	20	(4)M8×1.25×12deep
30T	100	88	120	70	20	(4)M8×1.25×15deep
50T	134	118	150	90	30	(4)M12×1.75×18deep

Specification

額定輸出 Rated Output	1mV/V
總和誤差 Total Error	0.5%R.O.
重現性 Repeatability	0.2%R.O.
潛變 Creep	0.05%/20min
輸入阻抗 Input Resistance	800 ± 50Ω
輸出阻抗 Output Resistance	700 ± 10Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%/10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%/10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	150%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)Black(-) Output:Green(+)White(-)

ROTARY TORQUE SENSOR

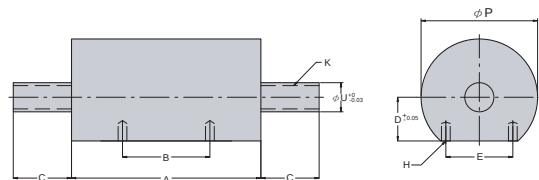
RT 迴轉式扭力計，系專為旋轉中量測扭力而設計之感應器，採用剪力式轉軸應力量測結構，剛性強，結構穩固，轉速高；採用碳刷式傳遞量測信號，雜訊低，體積小，重量輕，一體式的設計，簡潔美觀，堅固耐用。具以下之特點：

RT Rotary Torque sensor is specially designed for measuring the torque on a continually rotating shaft. It is constructed by a rigid spindle with shear strain detect sensor. The high speed carbon brush picks up torque signal. Yet, that is low noise , small, light, and precise.

特點 Features

- 體積小 Small
- 剛性強 Rigid
- 高轉速 High Speed
- 低雜訊 Low Noise
- RT-0.25, 0.5, 1, 2.5, 5, 10, 25, 50, 100, 250, 500, 1000 NM

Installation Dimensions



Model (N-m)	A	B	C	D	E	H	K	P	U
RT-0.25 RT-10	96	51	20	18	32	M4×0.7	3×1.8	52	10
RT-25 RT-100	98	51	35	25	32	M4×0.7	4×2.5	62	20
RT-250 RT-1000	115	65	60	36	44	M6×1.0	10×5	88	40

Specification

額定輸出 Rated Output	1mV/V
非線性	0.5%
輸入阻抗 Input Resistance	430 or 385 or 350Ω
輸出阻抗 Output Resistance	350Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
使用範圍 Safe Temp. Range	-10°C~50°C
容許轉速	100NM 以下 5000RPM 250NM 以下 4000RPM
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%/10°C
溫度對輸出影響 Temp. Effect on Rated Output	0.03%/10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	150%
接線方式 Cable Connection	1:(+)EXCI 2:(-)ECCI 1:(+)SIG 2:(-)SIG

TORQUE SENSOR

本扭力感測器 (Torque Sensor) 系專為扭力量測所設計，中心具對心凸圓，使對心精確，感測結構並以封密方式保護，以達到最高之量測準確度，具以下之特點：

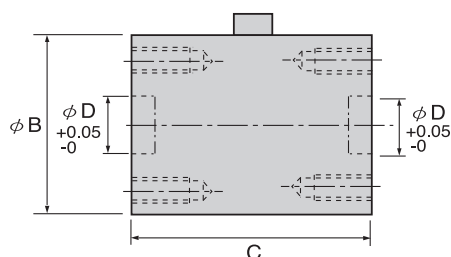
This is reaction type strain gage torque sensor. Specially designed for static torque measurement.

特點 Features

- 雙向 Bi-Directional
- 高精度 High accuracy
- 溫度補償 Thermally compensated
- 密封保護 Moisture proof
- T-0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100, 200, 500, 1K, 2K, 5K, (N-m)



Installation Dimensions



TYPE	A	B	C	D	E
T-0.1 ~ T-1	25	35	60	14	(4)M4 × 0.7
T-2 ~ T-100	35	50	60	20	(4)M8 × 1.25
T-200 ~ T-1K	60	75	90	40	(4)M12 × 1.75
T-2K ~ T-5K	90	112	110	74	(8)M12 × 1.75

Specification

額定輸出 Rated Output	2.0mV/V(T-0.1~T-1 1.0mV/V)
總和誤差 Total Error	0.3%
重現性 Repeatability	0.2%
潛變 Creep	0.05%/20min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.05%Load/10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	150%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)Black(-) Output:Green(+)White(-)

TENSION LOADCELL

本型 TE 張力感測器，系採用高敏度剪力感應結構及完全密封式保護，使力量感應達到最高之精度與敏感度，特別設計之過載保護使本感測器有較大之過載承受能力，特別適用於自動化機械之張力量測及控制上，具以下之特點：

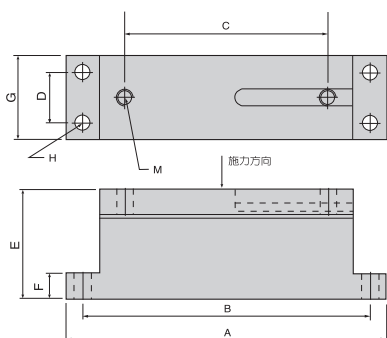
This tension force loadcell uses high sensitivity shear beam as sensing element and hermetically sealed construction. Specially designed overload protection device greatly increases overload capacity.

特點 Features

- 過載保護 Overload protection
- 密封保護 Hermetically Sealed
- 高精度 Precision
- TE-10, 25, 50, 100, 200, 350, 500, 1t, 2t, 3t, 5t, 10t kg



Installation Dimensions



TYPE	A	B	C	D	E	F	G	H	M
TE-10 TE-25	144	132	83	30	52	10	51	7	M6×1.0×10 Deep (T Slot 40 long)
TE-50 TE-200	190	170	120	30	71	15	51	9	M6×1.5×12 Deep (T Slot 65 long)
TE-350 TE-3T	250	220	136	45	76	15	75	13	M12×1.75×20 Deep
TE-5T TE-10T	290	260	184	50	103	24	80	13	M16×2.0×25 Deep (T Slot 85 long)

Specification

額定輸出 Rated Output	1mV/V
總和誤差 Total Error	0.3%R.O.
重現性 Repeatability	0.2%R.O.
潛變 Creep	0.05%/20min
輸入阻抗 Input Resistance	430 or 405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	300%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)Black(-) Output:Green(+)White(-)

SHAFT END LOADCELL

本型 TO 張力感測器，採用高敏感度樑式感應結構及軸端之安裝方式，使安裝更為容易並使力量感應達到最高之精度與敏感度，特別適用於自動化機械之張力量測及控制上，具以下之特點：

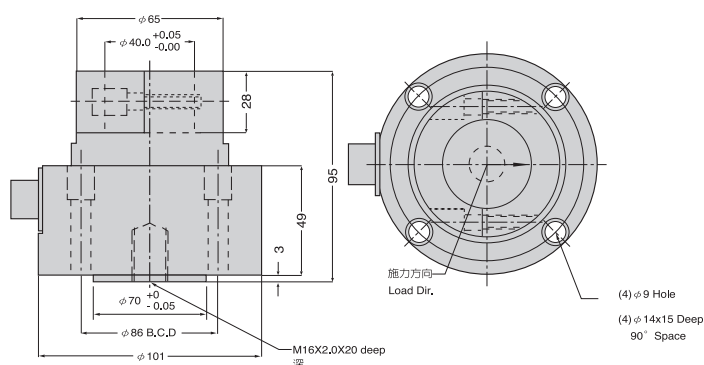
This shaft end tension loadcell use high sensitivity beam structure as sensing element, and tool steel material to increase overload capacity. End shaft mounting allows easy installation. Thus it is accurate and durable for use in tension force measurement and control process.

特點 Features

- 合金鋼本體 Tool steel material
- 安裝容易 Easy install
- 高精度 Precision
- TO-10, 25, 50, 100, 200, 350, 500 kg



Installation Dimensions



Specification

額定輸出 Rated Output	1mV/V
總和誤差 Total Error	0.3%R.O.
重現性 Repeatability	0.2%R.O.
潛變 Creep	0.1%/20min
輸入阻抗 Input Resistance	450 ± 25Ω
輸出阻抗 Output Resistance	350Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%10°C
零點誤差 Zero Balance	±3%R.O.
容許負荷 Safe Overload Rating	300%
導線長度 Cable Length	3m
接線方式 Cable Connection	1:(+)EXCI 2:(-)ECCI 1:(+)SIG 2:(-)SIG

WIRE TENSION LOADCELL

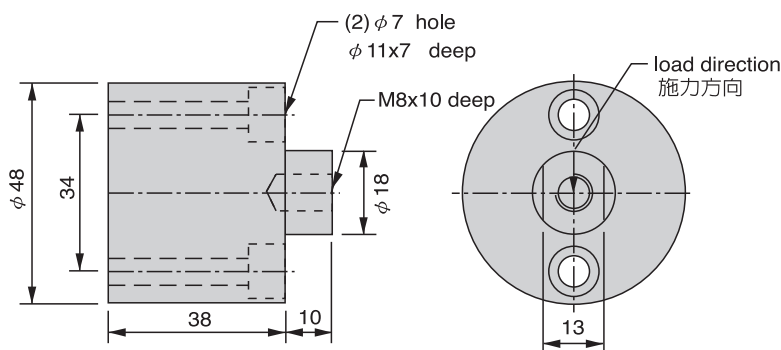
本型 TW 線張力感測器，專為線張力量測而設計，採用高敏感度雙層樑式感應結構，並以鋁合金外殼保護感應元件，使力量感應達到最高之精度與敏感度，前端安裝螺孔使張力量測轉輪安裝方便容易，特別適用於線張力量測及控制上，具以下之特點：

This wire tension loadcell uses high sensitivity double beam structure as sensing element. Aluminum alloy cover protects the sensing element. End thread mounting allows easy installation of the rotation wheel. Thus it is accurate and convenience for use in wire tension force measurement and control processes.

特點 Features

- 密封保護 Hermetically Sealed
- 高精度 High Accuracy
- 安裝容易 Easy install
- TW-1, 2.5, 5, 10, 25, 50 kg

Installation Dimensions



Specification

額定輸出 Rated Output	1.0mV/V
總和誤差 Total Error	0.3%R.O.
重現性 Repeatability	0.2%R.O.
潛變 Creep	0.1%/20min
輸入阻抗 Input Resistance	420 $\pm$ 15 Ω
輸出阻抗 Output Resistance	350 Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
溫度被償範圍 Compensated Temp.Range	-10°C~50°C
使用範圍 Safe Temp. Range	-20°C~70°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.03%10°C
零點誤差 Zero Balance	$\pm 3\%$ R.O.
容許負荷 Safe Overload Rating	300%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)Black(-) Output:Green(+)White(-)

PRESSURE SENSOR

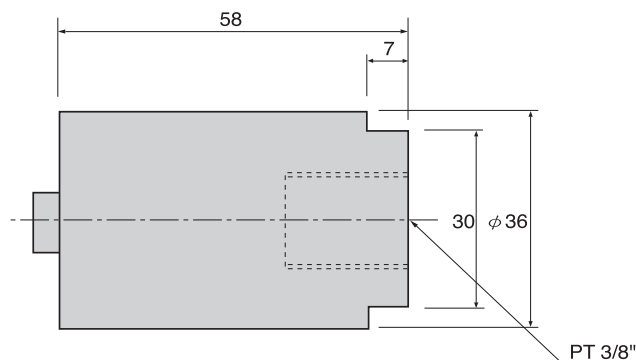
本 PV 壓力感測器 (Pressure Sensor) 系專為壓力量測所設計，以不鏽鋼為感應膜，應變規 (Strain Gage) 為感測元件，由於應變規較不受溫度變化之影響，本感測器又經精確之溫度補償，感測結構並以密封方式保護，以達到最高之量測準確度，其量測準確度優於一般以矽晶做成之感測器，特別適用於精密控制及量測，上具以下之特點：

This pressure sensor is a precision strain gage transducer. It uses stainless steel as sensing element. It is temperature compensated and hermetically sealed. Excellent for use in precision pressure measurements or general industrial control units.

特點 Features

- 密封保護 Hermetically Sealed
- 高精度 High Accuracy
- 溫度變化補償 Thermally Compensated
- 不鏽鋼感應元件 Stainless Diaphragm
- PV-5, 10, 20, 35, 50, 100, 200, 300, 400, 500, 750, 1000 kg/cm²

Installation Dimensions



Specification

額定輸出 Rated Output	2.0mV/V
總和誤差 Total Error	0.05%
重現性 Repeatability	0.03%
輸入阻抗 Input Resistance	405 ± 25Ω
輸出阻抗 Output Resistance	350 ± 5Ω
最大輸入電壓 Max. Excitation Voltage	20V
建議輸入電壓 Recommended Excitation Voltage	10V
使用範圍 Safe Temp. Range	-20°C~80°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.05%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.05%Load/10°C
零點誤差 Zero Balance	±5%R.O.
容許負荷 Safe Overload Rating	150%
導線長度 Cable Length	3m
接線方式 Cable Connection	Input:Red(+)Black(-) Output:Green(+)White(-)



PRESSURE SENSOR

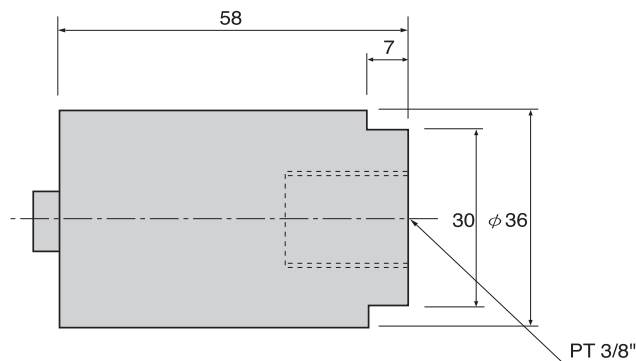
本壓力感測器 (Pressure Sensor) 系 PV 型壓力感測器再將放大線路埋於感測器內，可避免因導線所造成之誤差及干擾，有 5V、10V 或 4-20mA 三種輸出可供選擇。本感測器經精確之溫度補償，感測結構並以密封方式保護，以達到最高之量測準確度，其量測準確度優於一般以矽晶做成之感測器。

This pressure sensor is a precision strain gage transducer. It use PV pressure sensor and built in amplifier. It has 10V, 5V or 4~20mA output to meet different applications.

特點 Features

- PVA-10, 20, 35, 50, 100, 200, 350, 500, 750, 1000 kg/cm²

Installation Dimensions



Specification

額定輸出 Rated Output	4~20mV or 5V or 10V ±1%
總和誤差 Total Error	0.1%
重現性 Repeatability	0.05%
最大輸入電壓 Max. Excitation Voltage	24VDC
最小輸入電壓 Recommended Excitation Voltage	12VDC(5V, 4-20 mA) 15VDC(10V)
使用範圍 Safe Temp. Range	-20°C~80°C
溫度對零點之影響 Temp. Effect on Zero Balance	0.01%R.O./10°C
溫度對額定輸出之影響 Temp. Effect on Rated Output	0.01%Load/10°C
零點誤差 Zero Balance	0.5V
容許負荷 Safe Overload Rating	150%
接線方式 Cable Connection	Input:Red(+)Black(GND) Output:Green(+)

訂購編號 Ordering Information	PVA - 10 - 10	
Type	<u>Rated pressure</u> in kg/cm ²	<u>Rated output</u> 5 for 5v 10 For 10V 20For 20mA



JS H200 HANDY INDICATOR

本顯示器系高功能，高精度掌上型顯示器，本顯示器針對應變規式感測器所設計，有絕佳的穩定性，可配合各種應變規式感測器。本顯示器使用 LCD 顯示螢幕 A-D 最高解析度可達 20000 最快每秒取樣 500 次，使高點保持數值正確穩定，並可設定三種顯示單位，特別設計的省電線路及自動斷電功能，增長電池使用時間，採用高強度鋁合金外殼，總重量低於 300 克，真正實現走到那裡量到那裡的夢想。

This handy indicator is specially designed for strain gage type sensor. It is highly stable and accurate. This indicator uses LCD display panel and delta-sigma AD converter. The max. resolution is ± 20000 counts and max. sampling rates is 500 Hz. thus the max. hold value will be very precise. It can set 3 display units. Specially designed low power consumption circuit and auto-power off function greatly increase battery life. The aluminum alloy casing is stiff and light. Total weight is less than 300g. Easy to carry and measure anywhere.



Specification

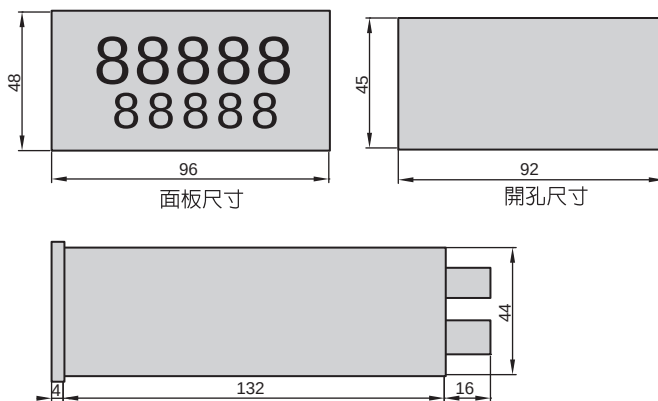
顯示範圍 Display Range	999999to-99999
解析度 Resolutions	1-10000 Selectable
荷重元加載電壓 Loadcell Excitation	5V DC
輸入範圍 Input range	1-2.5mV/
V 線性度 Linearity	0.025%
顯示增量 Display Increment	1, 2, 5, 10, 20, 50, 100
小數點位置 Decimal point	Selectable
A/D 取樣速率（最快速）Max. Sampling Rate	100 HZ
功能 Functions	Auto Power Off - Max.Hold Auto-Reset Zero Unit Change
使用電源 Power	1DC9V Battery
外形尺寸 Dimensions	66×90×24(mm)

JS-320-M DUAL DISPLAY LOAD CONTROLLER

JS-320-M 係多通道、高性能、高精度、雙顯示荷重顯示控制器，最多可同時讀取 4 組荷重信號。本控制器針對應變規式感測器而設計，有絕佳之穩定性，採用快速類比數位轉換器，取樣速度單通道最快可達每秒 960 次（雙通道 160 次）；內部解析度高達 100 萬，顯示解析度最高可達 5 萬，具有二組 5 位數 LED 顯示螢幕，將量測值與設定值分開，使量測數值與設定值易於分辨及設定，有 18 個指示燈，隨時顯示其工作狀態，特別設計的高點保持及自動復歸功能，使量測自動循環起動，並具備 5 種常用之單位轉換，具有 4 組設定警報輸出，類比及數位輸出介面，易於與電腦或 PLC 連線。

JS-320-M is a multi-channel ,high quality and high precision dual-display load measuring controller. It can access 4 channel signals at the same time. It is special designed for strain gage loadcell , processed excellent stability. It adopts high frequency A/D converter and sampling rate is up to 960 Hz (2 Channel 160Hz); The internal resolution of JS-320 is up to 1000000 count; And the display resolution is up to 50000 count. There are two five digital led display sets to separate measurement value and alarm setting value and it would be helpful for alarm setting and measurement data display. Special designed peak hold and auto reset function make measurement automatically restart and cyclely proceed. It have 18 guiding lights for working conditions index, 5 general used unit converting, 4 setting alarms outputs,analog and RS-232 or RS-485 digital output interface. That makes it easy to connecting to computer or PLC.

Installation Dimensions



Specification

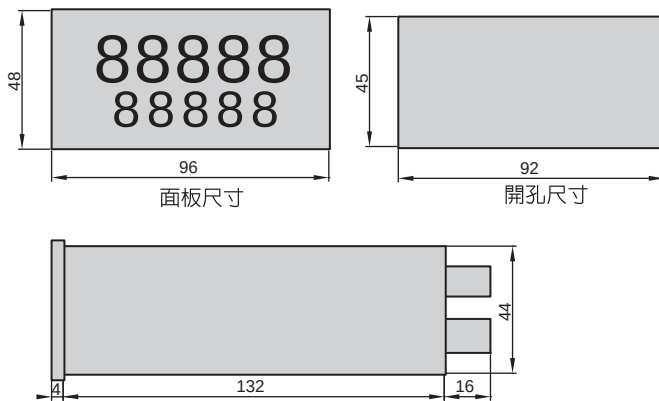
顯示範圍 Display Range	-9999 to 99999
解析度 Resolutions	1-50000 Selectable
荷重元加載電壓 Loadcell Excitation	DC 5V
驅動荷重元能力 Loadcell current	Max. 60 mA(4×350 ohm loadcell)
輸入範圍 Input range (full scale)	0.1-5mV/V
線性度 Linearity	0.02%
顯示增量 Display Increment	1, 2, 5, 10, 20, 50, 100, 200, 500
小數點位置 Decimal point	0, 0.0, 0.00, 0.000, 0.0000, 0.00000 Selectable
A/D 取樣速率單通道 Conversion rate	Max. 960 HZ
功能 Functions	Zero, Peak, Auto-Reset, Hold
面板顯示內容 Front Panel Annunciators (LED):	Zero, Peak, Hold, kg, lb, Nt, kN, g, Auto Reset, Power, AL1-AL4, SET1-SET4
電源 Power input	Ac 90 - 240V 50/60 Hz
使用溫度 Operating temperature	0°C to 50°C
環境溼度 Operating humidity	95%RH MAX.(non condensing)
類比輸出 Analog output	±5V or 4-20mA
串列輸出 Serial output	RS-232C or RS-485
訂購編號 Ordering Information	JS320-M - AO - DO - N - C
M- 通道數目 Channel number: 2 OR 4 F- 單通道快速版 Fast Single Channel	
AO- 類比輸出 Analog output: 0-non, 5V, 10V, A-4-20mA	
DO- 數位輸出 Digital output: 232-RS-232, 485-RS-485	
N- 警報輸出數目 Alarm output number: 2 or 4	
C- 警報輸出型式 Relay type P 光耦合繼電器 Photo couple relay (10mA DC)	
R 磁簧繼電器 Coil relay (5A 220V AC or 30V DC)	

JS-320 DUAL DISPLAY LOAD CONTROLLER

JS-320 係高功能、高精度雙顯示荷重顯示控制器，本控制器針對應變規式感應器而設計，有絕佳之穩定性，採用快速類比數位轉換器，取樣速度最快可達每秒 125 次；內部解析度高達 50 萬，顯示解析度最高達 2 萬，具有二組 5 位數 LED 顯示螢幕，將量測值與設定值分開，使量測數值與設定值易於分辨及設定，有 18 個指示燈，隨時顯示其工作狀態，特別設計的高點保持及自動復歸功能，使量測自動循環起動，並具備 5 種常用之單位轉換，具有 4 組設定警報輸出，類比及數位輸出介面，易於與電腦或 PLC 連線。

JS-320 is a high quality and high precision dual-display load measuring controller. It is special designed for strain gage loadcell, processed excellent stability. It adopts high frequency A/D converter and sampling rate up to 125 Hz; The internal resolution of JS-320 up to 500000 count; And the display resolution up to 20000 count. There are two five digital led display sets to separate measurement value and alarm setting value helpful for alarm setting and measurement data display. Special designed peak hold and auto reset function make measurement automatically restart and cyclely proceed. 18 guiding lights for working conditions index, 5 general use unit converting, 4 setting alarms outputs, analog and RS-232 or RS-485 digital output interface. Easy to connecting to computer or PLC.

Installation Dimensions



Specification

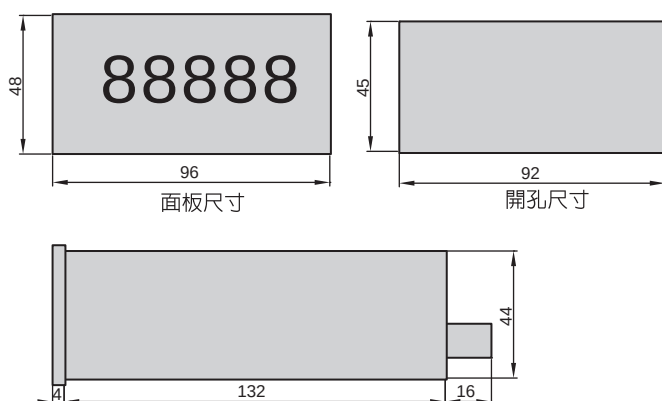
顯示範圍 Display Range	-9999 to 99999
解析度 Resolutions	1-20000 Selectable
荷重元加載電壓 Loadcell Excitation	DC 5V
驅動荷重元能力 Loadcell current	Max. 60 mA(4×350 ohm loadcell)
輸入範圍 Input range (full scale)	0.1-5mV/V
線性度 Linearity	0.02%
顯示增量 Display Increment	1, 2, 5, 10, 20, 50, 100, 200, 500
小數點位置 Decimal point	0, 0.0, 0.00, 0.000, 0.0000, 0.00000 Selectable
A/D 取樣速率 Conversion rate	Max. 125 HZ
功能 Functions	Zero, Peak, Auto-Reset, Hold
面板顯示內容 Front Panel Annunciators (LED):	Zero, Peak, Hold, kg, lb, Nt, kN, g, Auto Reset, Power, AL1-AL4, SET1-SET4
電源 Power input	Ac 90 - 240V 50/60 Hz
使用溫度 Operating temperature	0°C to 50°C
環境溼度 Operating humidity	95%RH MAX.(non condensing)
類比輸出 Analog output	±5V or 4-20mA
串列輸出 Serial output	RS-232C or RS-485
訂購編號 Ordering Information	JS320 - AO - DO - N - C
AO- 類比輸出 Analog output: 0-non, 5V, 10V, A-4-20mA	
DO- 數位輸出 Digital output: 232-RS-232, 485-RS-485	
N- 警報輸出數目 Alarm output number: 2 or 4	
C- 警報輸出型式 Relay type P 光耦合繼電器 Photo couple relay (10mA DC)	
R 磁簧繼電器 Coil relay (5A 220V AC or 30V DC)	

JS-300 PRECISION LOADCELL INDICATOR

JS-300 係高功能、高精度荷重顯示器，本顯示器針對應變規式感測器而設計，有絕佳之穩定性，採用快速類比數位轉換器，及高接數位濾波器，取樣速度最快可達每秒 500 次；內部解析度高達 50 萬，顯示解析度最高可達 2 萬，具 5 位數 LED 顯示螢幕，有 10 個指示燈，隨時顯示其工作狀態，特別設計的高點保持及自動復歸功能，使量測自動循環起動，並具備 5 種常用之單位轉換，類比及數位輸出介面，易於與電腦或 PLC 連線。

JS-300 is a high quality and high precision loadcell indicator. It is specially designed for strain gage loadcell, processed excellent stability. It adopts high speed A/D converter with high order digital filter. Maximum sampling rate up to 125 Hz; The internal resolution of JS-300 up to 500000 counts; And the display resolution up to 20000 counts. Specially designed peak hold and auto reset function make measurement automatically restart and cyclely proceed. 10 guiding lights for working conditions index, 5 general use unit converting, analog and RS-232 or RS-485 digital output interface. Easy to connec to computer or PLC.

Installation Dimensions



Specification

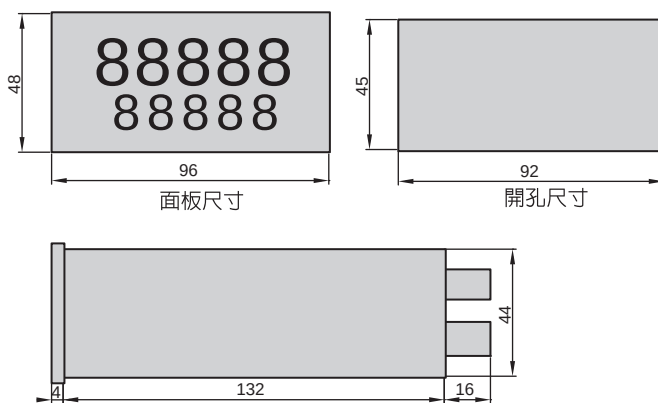
顯示範圍 Display Range	-9999 to 99999
解析度 Resolutions	1-20000 Selectable
荷重元加載電壓 Loadcell Excitation	DC 5V
驅動荷重元能力 Loadcell current	Max. 60 mA(4×350 ohm loadcell)
輸入範圍 Input range (full scale)	0.1-5mV/V
線性度 Linearity	0.02%
顯示增量 Display Increment	1, 2, 5, 10, 20, 50, 100, 200, 500
小數點位置 Decimal point	0, 0.0, 0.00, 0.000, 0.0000, 0.00000 Selectable
A/D 取樣速率 Conversion rate	Max. 500 HZ
功能 Functions	Zero, Peak, Auto Reset, Hold
面板顯示內容 Front Panel Annunciators (LED):	Zero, Peak, Hold, kg, lb, Nt, kN, g, Auto Reset, Power
電源 Power input	Ac 90 - 240V 50/60 Hz
使用溫度 Operating temperature	0°C to 50°C
環境溼度 Operating humidity	95%RH MAX.(non condensing)
類比輸出 Analog output	±5V or 4-20mA
串列輸出 Serial output	RS-232C or RS-485
訂購編號 Ordering Information	JS300 - AO - DO
AD- 取樣速度 Sampling speed: max. 125Hz	
AO- 類比輸出 Analog output: 0-non, 5V, 10V, A-4-20mA	
DO- 數位輸出 Digital output: 232-RS-232, 485-RS-485	

JS-420 DUAL DISPLAY TORQUE CONTROLLER

JS-420 係高精度、多功能、雙顯示扭力量測控制器，本控制器針對應變規式感應器而設計，有絕佳之穩定性，採用快速類比數位轉換器，最高取樣速度可達每秒 125 次；內部解析度高達 1 百萬，顯示解析度可達 2 萬，具有二組 5 位數 LED 顯示螢幕，將量測值與設定值分開，使量測數值與設定值易於分辨及設定，有 18 個指示燈，隨時顯示其工作狀態，並具備 5 種常用之單位轉換功能，特別設計的第一高點保持及自動復歸功能，使量測自動循環起動；具有 4 組設定警報輸出，類比及 RS-232 或 RS-485 數位輸出介面，易於與電腦或 PLC 連線。

JS-420 is a high quality and high precision dual-display torque measuring controller. It is specially designed for strain gage torque sensor, processed excellent stability. It adopts high frequency A/D converter and sampling rate up to 125 Hz; The internal resolution of JS-420 up to 500000 count; And the display resolution up to 20000 count. There are two five digital led display sets to separate measurement value and alarm setting value, helpful for alarm setting and measurement data display. Specially designed first peak hold and auto reset function make measurement automatically restart and cyclely proceed. 18 guiding lights for working conditions index, 5 general use torque unit converting, 4 setting alarms outputs analog and RS-232 or RS-485 digital output interface. Easy to connect to computer or PLC.

Installation Dimensions



Specification

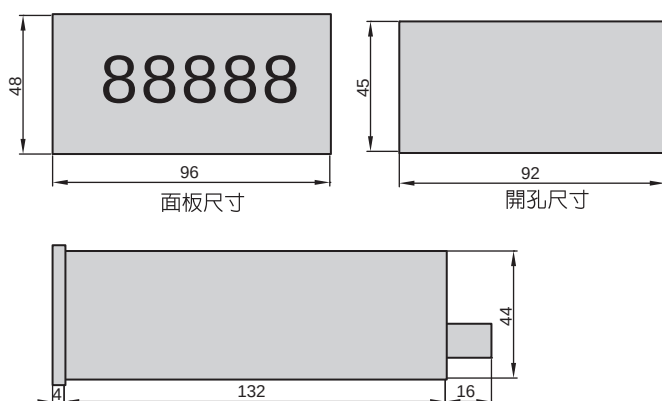
顯示範圍 Display Range	-9999 to 99999
解析度 Resolutions	1-20000 Selectable
感應器加載電壓 Sensor excitation	DC 5V
驅動感應器能力 Load current	Max. 60 mA(4×350 ohm loadcell)
輸入範圍 Input range (full scale)	0.1-5mV/V
線性度 Linearity	0.02%
顯示增量 Display Increment	0, 0.0, 0.00, 0.000, 0.0000, 0.00000 Selectable
A/D 取樣速率 Conversion rate	Max. 125 HZ
功能 Functions	Zero, Peak, Auto-Reset, Hold
面板顯示內容 Front Panel Annunciators (LED):	Zero, Auto, Reset, First, Peak, Hold, N-m, kg-m, kg-cm, lb-in, lb-ft, Power, AL1-AL4, SET1-SET4
電源 Power input	Ac 90 - 240V 50/60 Hz
使用溫度 Operating temperature	0°C to 50°C
環境溼度 Operating humidity	95%RH MAX.(non condensing)
類比輸出 Analog output	±5V or 4-20mA
串列輸出 Serial output	RS-232C or RS-485
訂購編號 Ordering Information	JS420 - AO - DO - N - C
AO- 類比輸出 Analog output: 0-non, 5V, 10V, A-4-20mA	
DO- 數位輸出 Digital output: 232-RS-232, 485-RS-485	
N- 警報輸出數目 Alarm output number: 2 or 4	
C- 警報輸出型式 Relay type P 光耦合繼電器 Photo couple relay (10mA DC)	
R 磁簧繼電器 Coil relay (5A 220V AC or 30V DC)	

JS-400 PRECISION TORQUE INDICATOR

JS-400 係高功能、高精度扭力顯示器，本顯示器針對應變規式感測器而設計，有絕佳之穩定性，採用快速類比數位轉換器，及高接數位濾波器，取樣速度最快可達每秒 125 次；內部解析度高達 50 萬，顯示解析度最高可達 2 萬，具 5 位數 LED 顯示螢幕，有 10 個指示燈，隨時顯示其工作狀態，特別設計的高點保持及自動復歸功能，使量測自動循環起動，並具備 5 種常用之單位轉換，類比及數位輸出介面，易於與電腦或 PLC 連線。

JS-400 is a high quality and high precision Torque indicator. It is specially designed for strain gage torque sensor, processed excellent stability. It adopts high speed A/D converter with high order digital filter. Maximum sampling rate up to 125 Hz; The internal resolution of JS-400 up to 500000 counts; And the display resolution up to 20000 counts.. Specially designed peak hold and auto reset function make measurement automatically restart and cyclely proceed. 10 guiding lights for working conditions index, 5 general used unit converting, analog and RS-232 or RS-485 digital output interface. Easy to connec to computer or PLC.

Installation Dimensions



Specification

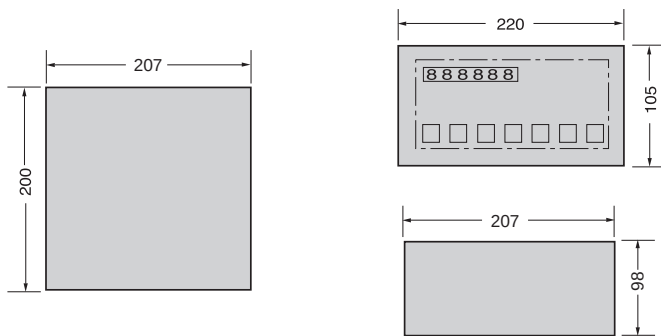
顯示範圍 Display Range	-9999 to 99999
解析度 Resolutions	1-20000 Selectable
荷重元加載電壓 Loadcell Excitation	DC 5V
驅動荷重元能力 Loadcell current	Max. 60 mA(4×350 ohm loadcell)
輸入範圍 Input range (full scale)	0.1-5mV/V
線性度 Linearity	0.02%
顯示增量 Display Increment	1, 2, 5, 10, 20, 50, 100, 200, 500
小數點位置 Decimal point	0, 0.0, 0.00, 0.000, 0.0000, 0.00000 Selectable
A/D 取樣速率 Conversion rate	Max. 125 HZ
功能 Functions	Zero, Peak, Auto Reset, Hold
面板顯示內容 Front Panel Annunciators (LED):	Zero, Peak, Hold, kg, lb, Nt, kN, g, Auto Reset, Power
電源 Power input	Ac 90 - 240V 50/60 Hz
使用溫度 Operating temperature	0°C to 50°C
環境溼度 Operating humidity	95%RH MAX.(non condensing)
類比輸出 Analog output	±5V or 4-20mA
串列輸出 Serial output	RS-232C or RS-485
訂購編號 Ordering Information	JS300 - AO - DO
AO- 類比輸出 Analog output: 0-non, 5V, 10V, A-4-20mA	
DO- 數位輸出 Digital output: 232-RS-232, 485-RS-485	

JS-2200 DUAL DISPLAY LOAD CONTROLLER

JS-2200 係高功能、高精度雙顯示荷重顯示控制器，本控制器針對應變規式感應器而設計，有絕佳之穩定性，採用快速類比數位轉換器，取樣速度最快可達每秒 500 次；內部解析度高達 1 百萬，顯示解析度最高達 2 萬，具有二組數據顯示螢幕，將量測值與設定值分開，使量測數值與設定值易於分辨及設定，有 20 個指示燈，隨時顯示其工作狀態，特別設計的第一高點保持及自動復歸功能，使量測自動循環起動，並具備 5 種常用之單位轉換，具有 4 組設定警報輸出，類比及數位輸出介面，易於與電腦或 PLC 連線。

JS-2200 is a high quality and high precision dual-display load measuring controller. Specially designed for strain gage loadcell, with excellent stability. It adopts high frequency A/D converter and sampling rate up to 500 Hz; The internal resolution of JS-2200 is up to 1000000 count; And the display resolution is up to 20000 count. There are two six digital led display sets to separate measurement value and alarm setting value and it would be helpful for alarm setting and measurement data display. Specially designed first peak hold and auto reset function make measurement automatically restart and cyclely proceed. It have 20 guiding lights for working conditions index, 5 general use unit converting, 4 setting alarms outputs analog and RS-232 or RS-485 digital output interface. Easy to connecting to computer or PLC.

Installation Dimensions



Specification

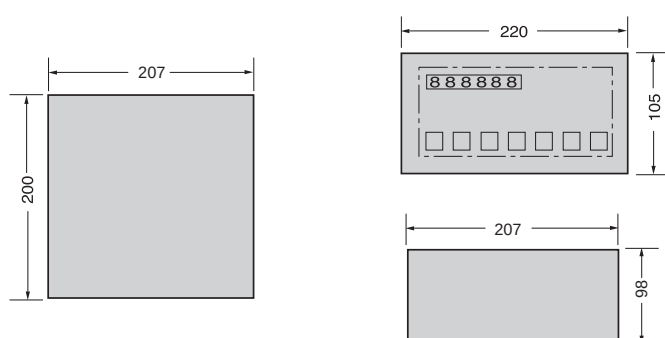
顯示範圍 Display Range	-99999 to 999999
解析度 Resolutions	1-20000 Selectable
荷重元加載電壓 Loadcell Excitation	DC 7.5V
驅動荷重元能力 Loadcell current	Max. 115 mA(4×350 ohm loadcell)
輸入範圍 Input range (full scale)	0.1-5mV/V
線性度 Linearity	0.02%
顯示增量 Display Increment	1, 2, 5, 10, 20, 50, 100, 200, 500
小數點位置 Decimal point	0, 0.0, 0.00, 0.000, 0.0000, 0.00000 Selectable
A/D 取樣速率 Conversion rate	Max. 500 HZ
功能 Functions	Zero, Peak, Auto-Reset, Hold
面板顯示內容 Front Panel Annunciators (LED):	Zero, Tare, Net, Gross, kg, lb, Nt, kN, g, Hold, Auto, Reset, Power, AL1-A14, SET1-SET4
電源 Power input	Ac 90 - 240V 50/60 Hz
使用溫度 Operating temperature	0°C to 50°C
環境溼度 Operating humidity	95%RH MAX.(non condensing)
類比輸出 Analog output	±5V or 4-20mA
串列輸出 Serial output	RS-232C or RS-485
警報輸出驅動能力 Alarm output driving current	RS-232C or RS-485
訂購編號 Ordering Information	JS320 - AO - DO - N - C
AO- 類比輸出 Analog output: 0-non, 5V, 10V, A-4-20mA	
DO- 數位輸出 Digital output: 232-RS-232, 485-RS-485	
N- 警報輸出數目 Alarm output number: 2 or 4	
C- 警報輸出型式 Relay type P 光耦合繼電器 Photo couple relay (80mA 220V DC or AC)	
R 磁簧繼電器 Coil relay (8A 220V AC or 30V DC)	

JS-2000 WEIGHING INDICATOR

JS-2000 顯示器系高功能高精度顯示器，本顯示器針對應變規式感測器所設計，有絕佳的穩定性，具備 RS-232 資料傳輸功能，類此信號可提供 $\pm 10V$ 或 4-20mA 輸出，A-D 取樣速度最快可達每秒 500 次，最高解析度可達 20000，本顯示器所有設定工作均由前面板的按鍵輸入，特別設計的總重修正功能，可讓使用者精確調整重量，使校正工作快速精確。

JS-2000 is an excellent performance, high precision weighing indicator. It contains all the necessary functions for weighting operations. RS-232c serial output, or analog output $\pm 10V$ or 4-20mA current output can be selected. At the same time you also can chose 3 display units (optional). JS-2000 use the key at the front panel to input the set up data. It adopts high frequency A/D converter with sampling rate up to 500 Hz. The display resolution up to 20,000. Specially designed sensitivity modify function allow you fine adjust the calibration data and your weighting system will working very accurately. "Watch dog" circuitry prevents a variety of malfunctions. High precision, easy to use and will meet your weighing requirements.

Installation Dimensions



Specification

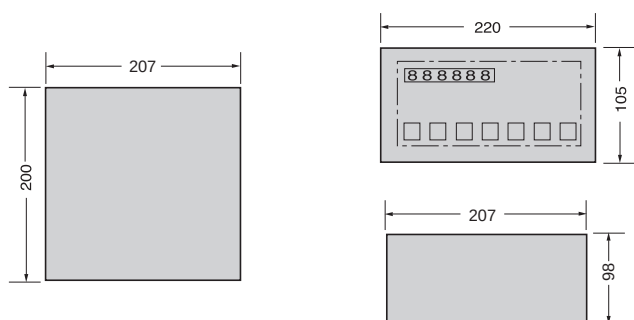
顯示範圍 Display Range	-99999 to 999999
解析度 Resolutions	1-20000 Selectable
荷重元加載電壓 Loadcell Excitation	DC 7.5V
驅動荷重元能力 Loadcell current	Max. 115 mA (4×350 ohm loadcell)
輸入範圍 Input range (full scale)	0.1-5mV/V
零點調整範圍 Zero adj. range	30 mV
線性度 Linearity	0.02%
顯示增量 Display Increment	1, 2, 5, 10, 20, 50, 100, 200, 500
小數點位置 Decimal point	0, 0.0, 0.00, 0.000, 0.0000, 0.00000 Selectable
A/D 取樣速率 Conversion rate	Max. 500 Hz
功能 Functions	Zero, Peak, Auto-Reset, Hold
面板顯示內容 Front Panel Annunciators	Center zero, tare, net, gross, kg, lb, print, hold & power (LED)
電源 Power input	110 or 220V 50/60 Hz
使用溫度 Operating temperature	0°C to 40°C
環境溼度 Operating humidity	95%RH MAX. (non condensing)
類比輸出 Analog output	10V or 4-20mA
串列輸出 Serial output	RS-232C

JS-6200 DUAL DISPLAY TORQUE CONTROLLER

JS-6200 係高精度、多功能雙顯示荷重顯示控制器，本控制器針對應變規式感應器而設計，有絕佳之穩定性，採用快速類比數位轉換器，取樣速度最快可達每秒 500 次；內部解析度高達 1 百萬，顯示解析度最高達 2 萬，具有二組 6 位數 LED 顯示螢幕，將量測值與設定值分開，使量測數值與設定值易於分辨及設定，有 20 個指示燈，隨時顯示其工作狀態，並具備 5 種常用之單位轉換功能，特別設計的第一高點保持及自動復歸功能，使量測自動循環起動；具有 4 組設定警報輸出，類比及 RS-232 或 RS-485 數位輸出介面，易於與電腦或 PLC 連線。

JS-6200 is a high quality and high precision dual-display torque measuring controller. It is specially designed for strain gage torque sensor, processed excellent stability. It adopts high frequency A/D converter and sampling rate up to 500 Hz; The internal resolution of JS-6200 is up to 1000000 count; display resolution up to 20000 count. There are two six digital led display sets to separate measurement value and alarm setting value; helpful for alarm setting and measurement data display. Special designed first peak hold and auto reset function make measurement automatically restart and cyclely proceed. 20 guiding lights for working conditions index, 5 general use torque unit converting, 4 setting alarms outputs analog and RS-232 or RS-485 digital output interface. Easy to connect to computer or PLC.

Installation Dimensions



Specification

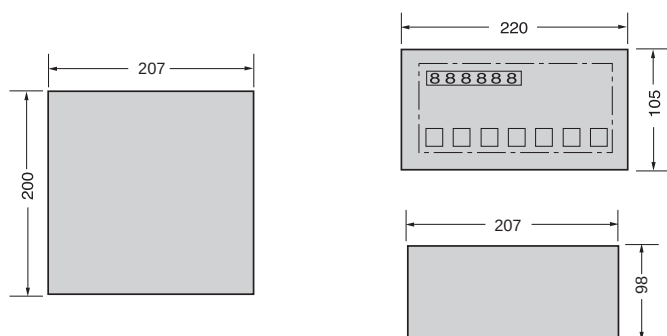
顯示範圍 Display Range	.....	-99999 to 999999
解析度 Resolutions	.....	1-20000 Selectable
荷重元加載電壓 Loadcell Excitation	.....	DC 7.5V
驅動荷重元能力 Loadcell current	.....	Max. 115 mA(4×350 ohm loadcell)
輸入範圍 Input range (full scale)	.....	0.1-5mV/V
線性度 Linearity	.....	0.02%
顯示增量 Display Increment	.....	1, 2, 5, 10, 20, 50, 100, 200, 500
小數點位置 Decimal point	.....	0, 0.0, 0.00, 0.000, 0.0000, 0.00000 Selectable
A/D 取樣速率 Conversion rate	.....	Max. 500 HZ
功能 Functions	.....	Zero, Speed, Unit, Auto-Reset, Print, Hold
面板顯示內容 Front Panel Annunciators (LED):	.....	Zero, Auto Reset, First Peak, Hold, N-m, kg-m, kg-cm, lb-in, lb-ft, Power, AL1-AL4, SET1-SET4
電源 Power input	.....	110 or 240V 50/60 Hz
使用溫度 Operating temperature	.....	0°C to 50°C
環境溼度 Operating humidity	.....	95%RH MAX.(non condensing)
類比輸出 Analog output	.....	±5V or 4-20mA
串列輸出 Serial output	.....	RS-232C
警報輸出驅動能力 Alarm output driving current	.....	Max. 80mA(220V DC or AC)
訂購編號 Ordering Information	.....	JS6200 - AO - DO - N
AO- 類比輸出 Analog output: 0-non, 5V, 10V, A-4-20mA		
DO- 數位輸出 Digital output: 232-RS-232		
N- 警報輸出數目 Alarm output number: 2 or 4		

JS-6000 TORQUE INDICATOR

JS-6000 顯示器系高功能高精度顯示器，本顯示器針對應變規式扭力感測器所設計，有絕佳的穩定性，A-D 取樣速度最快可達每秒 500 次，最高解析度可達 20000 次，特別設計之高點保持、第一高點保持及自動歸零功能，使本顯示器在扭力量測上既方便又準確。本顯示器所有設定工作均由前面版的按鍵輸入，並具備正逆向各 10 點之校正點使扭力值非常精確。本顯示器並具備 $\pm 10V$ 或 4-20mA 類比信號輸出 (選配)，及 RS-232 數位通訊功能 (選配) 方便與其他設備相連接。

JS-6000 Torque indicator is specially designed for strain gage type torque sensor. There are two groups, six units can be selected. It adopts high frequency A/D converter with sampling rate up to 500 Hz. The display resolution up to 20,000. It is highly stable and accurate for high speed torque signal. Auto-reset, First peak, Peak hold functions let you catch transient signal very easily and precisely. 0-10V analogy output and RS-232 digital data interface makes it easier to communicate with other devices.

Installation Dimensions



Specification

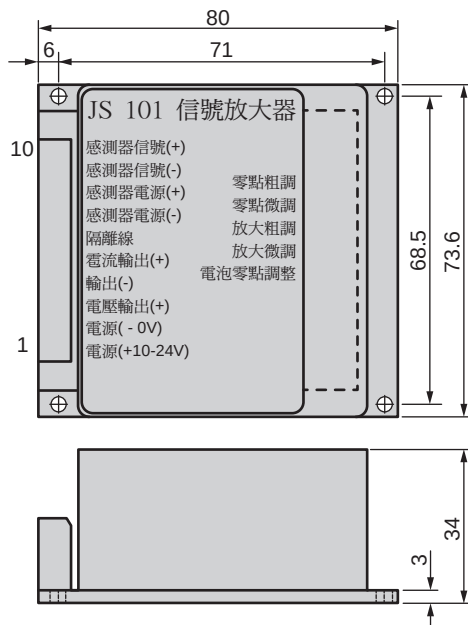
顯示範圍 Display Range	-99999 to 999999
解析度 Resolutions	1-10000 Selectable
荷重元加載電壓 Loadcell Excitation	DC 10V
輸入範圍 Input range (full scale)	0.1-5mV/V
零點調整範圍 Zero adj.range	30 mV
線性度 Linearity	0.02%
顯示增量 Display Increment	1, 2, 5, 10, 20, 50, 100, 200, 500
小數點位置 Decimal point	0, 0.0, 0.00, 0.000, 0.0000, 0.00000 Selectable
驅動荷重元能力 Loadcell current	N-m, kg-m, lb-ft, or N-m, kg-cm, lb-in
A/D 取樣速率 Conversion rate	Max. 500 HZ
功能 Functions	Zero, Autoreset, First Peak, Standby
電源 Power input	110 or 220V 50/60 Hz
使用溫度 Operating temperature	0°C to 40°C
環境溼度 Operating humidity	95%RH MAX.(non condensing)
類比輸出 Analog output	10V or 4-20mA
串列輸出 Serial output	RS-232C

JS-101 AMPLIFY

JS-101 本信號放大器前級採用高精度儀表放大器作荷重元信號初級放大，後經由零點調整線路調整零點，後級再以工業放大器做總重調整，最後以主動式二階濾波器，消除雜訊使信號非常穩定；零點調整與總重調整互相獨立不影響使調整工作快速容易。可同時輸出電壓及電流兩種信號；備有 $\pm 10V$ 、 $\pm 5V$ 、 $4-20mA$ 三種輸出規格供選擇可完全滿足您的需求。

JS-101 This Load cell amplify use instrumentation amplify as first stage amplify. Then with a zero adjust circuit to remove output bias, and the industrial OP amplify as the final amplify. Finally use active second order filter to reduce output noise. So the zero and span adjust are independently isolated. Easy to calibrate and adjust. $10V, 5V, 4-20mA$ 3 output version can selected. It can satisfy all your application requirements.

Installation Dimensions



Specification

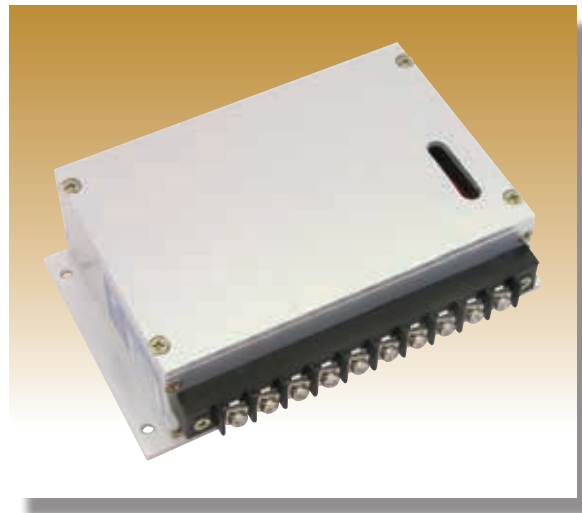
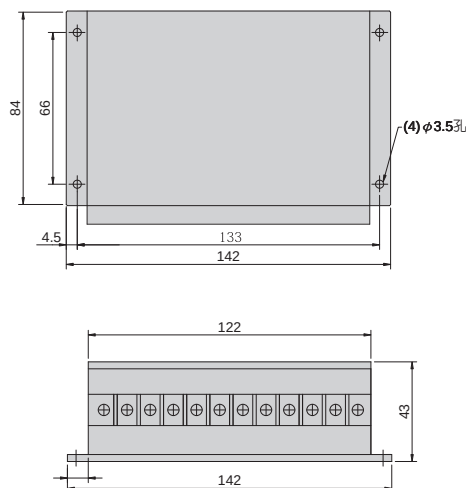
電源 Power input	DC 18~24V
荷重元激勵電壓 Excitation voltage	2.5, 5V or 10V
輸入範圍 Input range (full scale)	0.5-3mV/V
非線性度 Non linearity	0.02%
零點調整範圍 Zero adj.range	0.7 mV/V
工作溫度 Operating temperature	0-70℃
工作溼度 Working humidity	0-99.9%
訂購編號 Ordering Information	JS101- A - B - C
A- 電源 Power supply: 12-12VDC, 24-24VDC	
B- 輸出信號 Output signal: 5V:±5V 10V: ±10V 20:20mA	
C- 頻寬 Bandwidth: 10-10Hz, 100-100Hz 1k- 1kHz 10k-10kHz	

JS-100 AMPLIFY

JS-100 本荷重元放大器前級採用高精度儀表放大器作荷重元信號初級放大，後經由零點調整線路調整零點，後級再以工業放大器做總重調整，最後以主動式二階濾波器，消除雜訊使信號非常穩定；零點調整與總重調整互相獨立不影響使調整工作快速容易。備有 0-10V、0-5V、4-20mA 三種輸出規格供選擇可完全滿足您的需求。

JS-100 This Load cell amplify use instrumentation amplify as first stage amplify. Then with a zero adjust circuit to remove output bias, and the industrial OP amplify as the final amplify. Finally use active second order filter to reduce output noise. So the zero and span adjust are independently isolated. Easy to calibrate and adjust. 10V, 5V, 4-20mA 3 output version can selected. It can satisfy all your application requirements.

Installation Dimensions



Specification

電源 Power input	12-12VDC, 24-24VDC, AC-90~240VAC
荷重元激勵電壓 Excitation voltage	5V or 10V
輸入範圍 Input range (full scale)	0.5-4mV/V
輸出範圍 Output range (full scale)	10V, 5V 4-20mV/V
線性度 Linearity	0.02%
零點調整範圍 Zero adj.range	0.7 mV/V
工作溫度 Operating temperature	0-50℃
工作溼度 Working humidity	0-99.9%
訂購編號 Ordering Information	JS100- A - B - C
A- 電源 Power supply: 12-12VDC, 24-24VDC, AC-90~240VAC	
B- 輸出信號 Output signal: 5V:±5V 10V: ±10V 20:20mA	
C- 頻寬 Bandwidth: 10-10Hz, 100-100Hz 1k- 1kHz 10k-10kHz	

TCF CHUCK CLAMPING FORCE MEASURING DEVICE

TCF 車床夾頭夾持力無線量測裝置，本量測裝置係結合本公司力量感測器、微型信號處理技術及無線信號傳輸技術而成之高精度夾頭夾持力測試裝置，使用應變規為感測元件，變形量小，精度高。一體式的設計，簡潔美觀，使用藍芽無線信號傳輸技術，免除拉線的煩惱；以手機為顯示器，讀值清楚且攜帶方便，特別設計的省電線路及自動斷電功能，增長電池使用壽命。

TCF The measurement device is a combination of the company's loadcell , micro-signal processing and wireless signal transmission technology made of this high-precision chuck clamping force testing device. It use strain gauge for the sensing element, small deformation and high precision. Integrated design, compact and beautiful. Bluetooth wireless signal transmission technology, eliminating the trouble of cable. With the APP, mobile phone can access the measurement result, provide clear display, and easy to carry. Specially designed automatic power off function, increase The battery life.

特點 Features

- 一體設計密封保護
Compact design, Seal protection
- 無線傳輸，適合旋轉中量測
Wireless transmission suitable for rotating measurement
- 配合手機系統（安卓）
Mobile phone system (Android)



Specification

量測範圍（單爪） Measurement range (single claw)	TCF-100: 5-100kN / TCF-25: 1-25kN
最高轉速 (rpm) Maximum speed (rpm)	TCF-100: 6000 / TCF-25: 8000
解析度 Resolution	0.01kN
最小直徑 (mm) Minimum diameter (mm)	TCF-100: $\phi 74$ / TCF-25: $\phi 34$
準確度 Accuracy	$\pm 2\%$
電池續航力 Battery life	4 hour
藍芽傳輸距離 Bluetooth transmission distance	10m（無障礙）
配合手機系統 With mobile phone system	安卓 Android

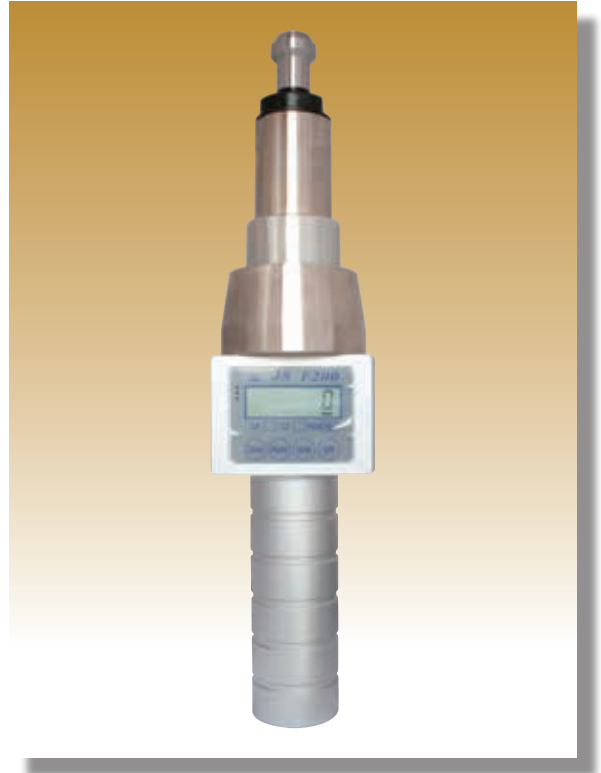
JS F200 TOOL HOLDER PULLING FORCE MEASURING DEVICE

JS-F200 拉刀力計係結合本公司力量感測器及掌上顯示器而成之高精度拉刀力測試器，使用應變規為感測元件，變形量小，精度高。適用於 7/24 錐度刀把。一體式的設計，簡潔美觀，免除拉線的煩惱；顯示器使用 LCD 顯示螢幕，省電美觀，具高點保持、自動歸零功能，並可設定三種顯示單位，特別設計的省電線路及自動斷電功能，增長電池使用壽命。握把使用高強度鋁合金重量輕易於攜帶。

JS F200 is a high-precision tool holder pulling force tester. It use the strain gauge for the sensing element, with small deformation and high precision. Applicable to 7/24 taper spindle. It Integrated the loadcell , signal processing unit and LCD display, to a compact measuring device. No connector and cable on it, simple and beautiful. Specially designed auto power off function, increase battery life.

特點 Features

- 一體式設計
One part design
- 變形量小
Hnigh stiffress
- 整體密封保護
Seal protection
- 刀把號數 : 25, 30, 40, 50



Specification

拉力範圍 Rally range	25 號 : 600kg 30 號 : 800kg 40 號 : 1500kg 50 號 : 2500kg
解析度 Resolution	1kg
精確度 Accuracy	0.3 % R.O.
功能 Features	歸零，單位更換，高點保持，自動歸零，自動斷電
使用溫度 Operating temperature	0-60°C
溼度 humidity	0-99.9%
電源 power supply	1.5V 電池 4 個
適用刀把 Applicable Tool	BT , CAT , SK , ISO
本產品獲得中華民國新型第 M280884 號專利	