Shenzhen Kaidechang Electronic Technology Co., Ltd

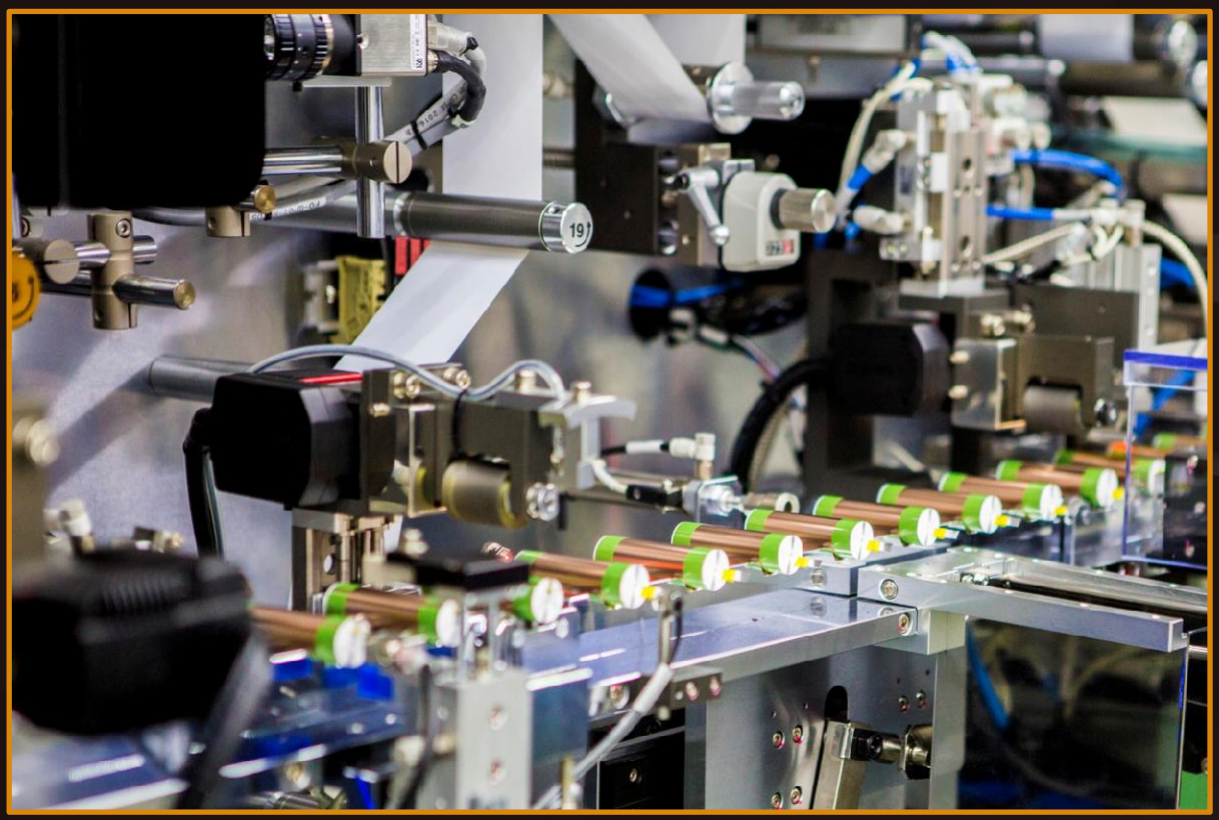
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Flat plate pressure sensor

The at plate pressure sensor has a large range of force area. It is widely used in pressure measurement of power batte , pressure measurement of lithium batte , force measurement system of new energy project and all kinds of engineering devices Good mechanical fatigue resistance and hardenability.



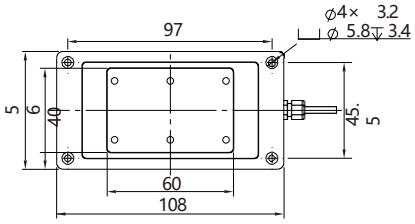


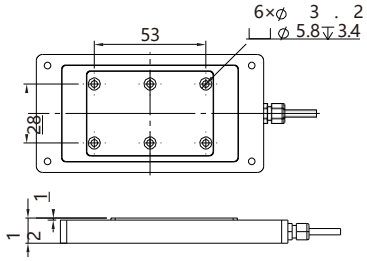
KDEV-P-0A0

Product characteristics

- Flat plate pressure sensor, large force area, low height, small square deviation,
- for the need of large force measurement or weighing of special occasions.

- Mounting dimensions





- Force mode



Technical parameters

(Measuring range)	50/100kg	(Sensitivity temperature effect)	±0.5%F.S/10℃
(Composite Error)	≤±0.5%	(Zero temperature effect)	±0.5%F.S/10℃
(Non-linear)	0.5%	(Temperature compensation range)	-10~60℃
(Sensitivity)	1.0±10%mV/V	(Operating temperature range)	-20~80℃
(Creep)	±0.1%F.S/30min	(Excitation voltage)	3~10V
(Zero output)	±2.0%F.S	(SAFE overload range)	150%F.S
(Input impedance)	700±20Ω	(Limit Overload Range)	300%F.S
(Output impedance)	700±10Ω	(Cable specifications)	Φ3mm×3m
(Insulation Resistance)	≥3000MΩ/100V DC	(Protection level)	Ip66

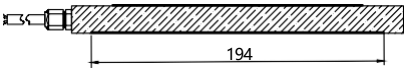


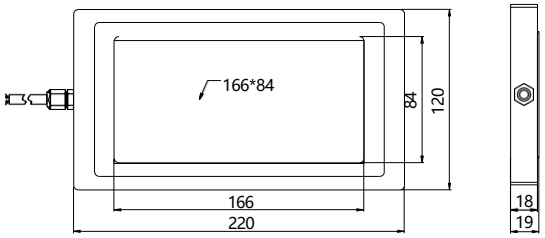
KDEV-P-0A5

Product characteristics

- Extra large stress area, for the application of special requirements in this area, the
- effect of the pressure sensor into the machine, etc.

- Mounting dimensions



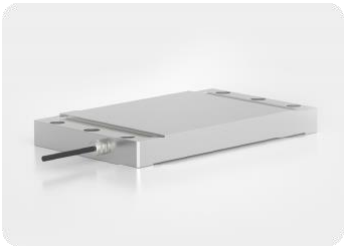


- Force mode



Technical parameters

(Measuring range)	1/2/4/5 T	(Sensitivity temperature effect)	±0.5%F.S/10℃
(Composite Error)	≤±0.1%	(Zero temperature effect)	±0.5%F.S/10℃
(Non-linear)	0.1%	(Temperature compensation range)	-10~60℃
(Sensitivity)	2.0±10%mV/V	(Operating temperature range)	-20~80℃
(Creep)	±0.5%F.S/30min	(Excitation voltage)	3~10V
(Zero output)	±2.0%F.S	(SAFE overload range)	120%F.S
(Input impedance)	402±10Ω	(Limit Overload Range)	150%F.S
(Output impedance)	350±3Ω	(Cable specifications)	Φ5mm×3m
(Insulation Resistance)	≥3000MΩ/100V DC	(Protection level)	Ip66

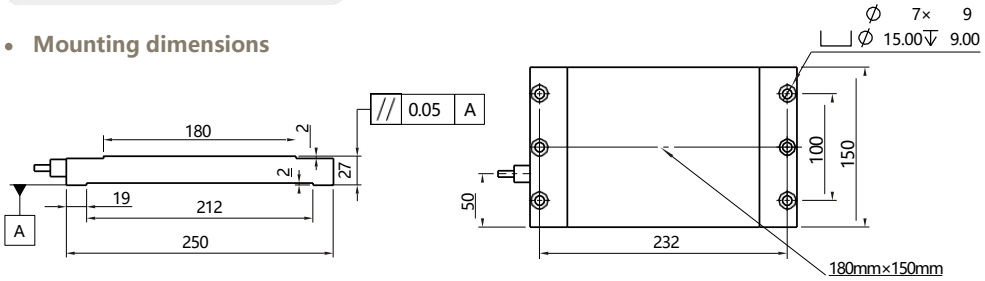


KDEV-P-0B2

Product characteristics

- Large stress area, high precision, good long-term stability. It is used for applications with special requirements in this field, such as battery pressing.

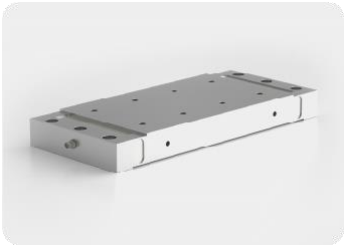
- Mounting dimensions



Force mode



Technical parameters			
(Measuring range)	2/5 T		
(Composite Error)	±1%F.S	(Sensitivity temperature effect)	±0.2%F.S/10℃
(Sensitivity)	1.0±10%mV/V	(Zero temperature effect)	±0.2%F.S/10℃
(Input impedance)	350±10Ω	(Temperature compensation range)	-10~40℃
(Output impedance)	350±10Ω	(Operating temperature range)	-20~60℃
(Insulation Resistance)	≥5000MΩ/100V DC	(SAFE overload range)	120%F.S
(Materials)	40rMo	(Limit Overload Range)	150%F.S
(Cable specifications)	Φ5mm×3m	(Recommended excitation voltage)	5~10V
(Protection level)	Ip66	(Maximum excitation voltage)	12V

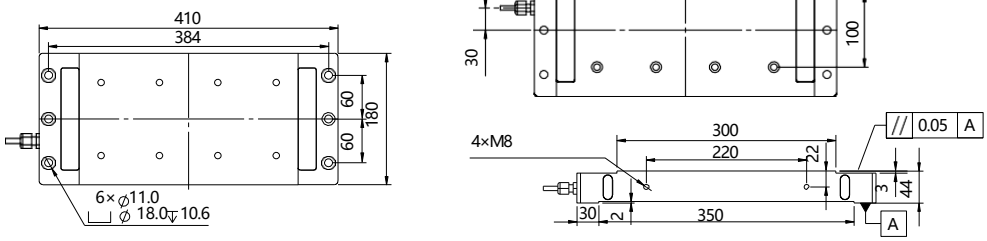


KDEV-P-0B4

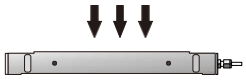
Product characteristics

- Flat plate pressure sensor, large stress area, low structure height, can measure the battery pressure.

- Mounting dimensions

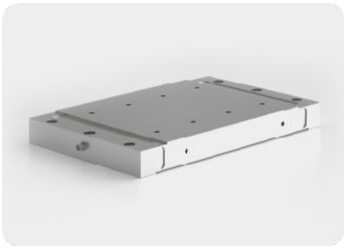


Force mode



Technical parameters			
(Measuring range)	10/20/30 T		
(Composite Error)	±0.3%F.S	(Sensitivity temperature effect)	±0.2%F.S/10℃
(Sensitivity)	1.8±10%mV/V	(Zero temperature effect)	±0.2%F.S/10℃
(Input impedance)	350±10Ω	(Temperature compensation range)	-10~40℃
(Output impedance)	350±10Ω	(Operating temperature range)	-20~60℃
(Insulation Resistance)	≥5000MΩ/100V DC	(SAFE overload range)	120%F.S
(Materials)	40Cr	(Limit Overload Range)	150%F.S
(Cable specifications)	Φ5mm×3m	(Recommended excitation voltage)	5~10V
(Protection level)	Ip66	(Maximum excitation voltage)	12V

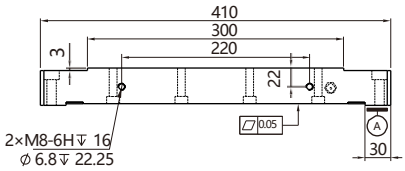
KDEV-P-0B5

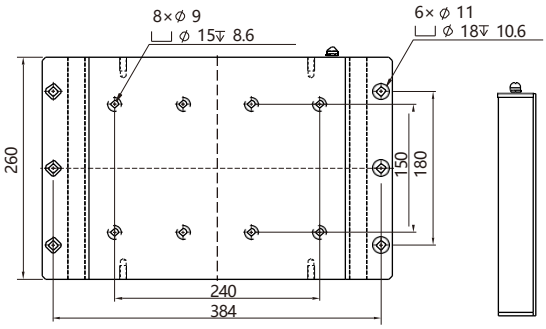


Product characteristics

- Has a large range of force area, widely used in battery equipment, new energy
- projects and a variety of engineering devices of the force measurement system.

- Mounting dimensions





- Force mode



Technical parameters

(Measuring range)	10/20/30 T		
(Composite Error)	±0.3%F.S	(Sensitivity temperature effect)	±0.2%F.S/10℃
(Sensitivity)	1.0/1.5±10%mV/V	(Zero temperature effect)	±0.2%F.S/10℃
(Input impedance)	/	(Temperature compensation range)	-10~40℃
(Output impedance)	/	(Operating temperature range)	-20~60℃
(Insulation Resistance)	≥5000MΩ/100V DC	(SAFE overload range)	150%F.S
(Materials)	42CrMo	(Limit Overload Range)	200%F.S
(Cable specifications)	Φ5mm×3m	(Recommended excitation voltage)	5~10V
(Protection level)	Ip66	(Maximum excitation voltage)	12V

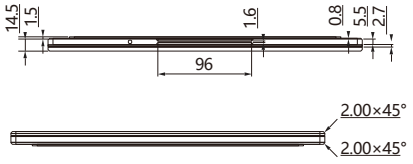
KDEV-P-0C0

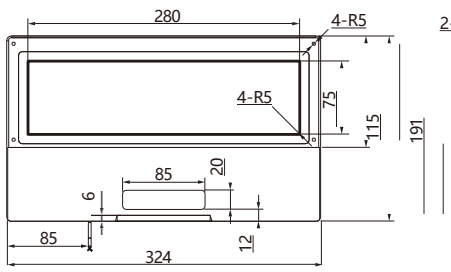


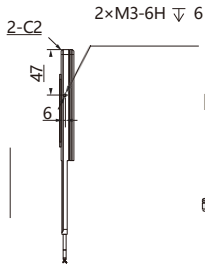
Product characteristics

- The product has large stress area, stable and reliable performance, 1.6 cm ultra-
- thin outline structure, and is mainly used in lithium battery forming, cold pressure spot inspection.

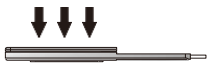
- Mounting dimensions







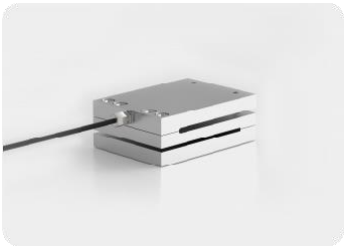
Force mode



Technical parameters

(Measuring range)	1.5T		
(Composite Error)	±0.25%F.S	(Sensitivity temperature effect)	±0.2%F.S/10℃
(Sensitivity)	2.0±10%mV/V	(Zero temperature effect)	±0.2%F.S/10℃
(Input Resistance)	350±10Ω	(Temperature compensation range)	-10~40℃
(Output Resistance)	350±10Ω	(Operating temperature range)	-20~60℃
(Insulation Resistance)	≥5000MΩ/100V DC	(SAFE overload range)	120%F.S
(Materials)	stainless steel	(Limit Overload Range)	150%F.S
(Cable specifications)	Φ3mm×3m	(Recommended excitation voltage)	5~10V
(Protection level)	Ip66	(Maximum excitation voltage)	12V

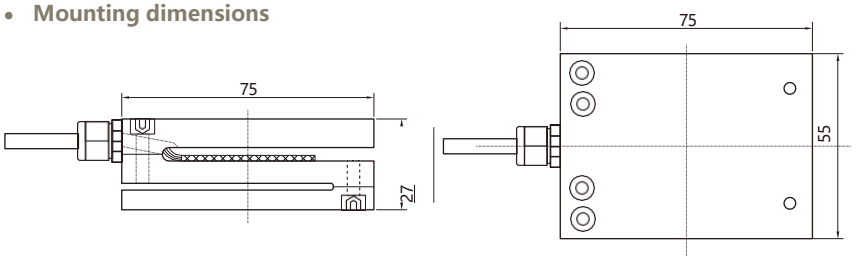
KDEV-P-A40



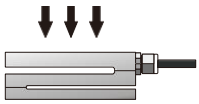
Product characteristics

- High precision, good stability and output symmetry are widely used in battery
- production and automatic equipment testing.

- **Mounting dimensions**



Force mode



Technical parameters

(Measuring range)	20/50/100/200 kg	(Sensitivity temperature effect)	±0.05%F.S/10℃
(Composite Error)	±0.1%F.S.	(Zero temperature effect)	±0.05%F.S/10℃
(Non-linear)	0.1%F.S.	(Temperature compensation range)	-10~40℃
(Output sensitivity)	2.0±10%mV/V	(Operating temperature range)	-20~60℃
(Lag behind)	0.05%F.S	(Recommended excitation voltage)	5~10V
(Service life)	Over 1 million times	(Maximum excitation voltage)	12V
(Materials)	aluminum alloy	(SAFE overload range)	120%F.S
(Cable specifications)	Φ3mm×3m	(Limit Overload Range)	150%F.S
(Insulation Resistance)	≥5000MΩ/100V DC	(Protection level)	Ip66

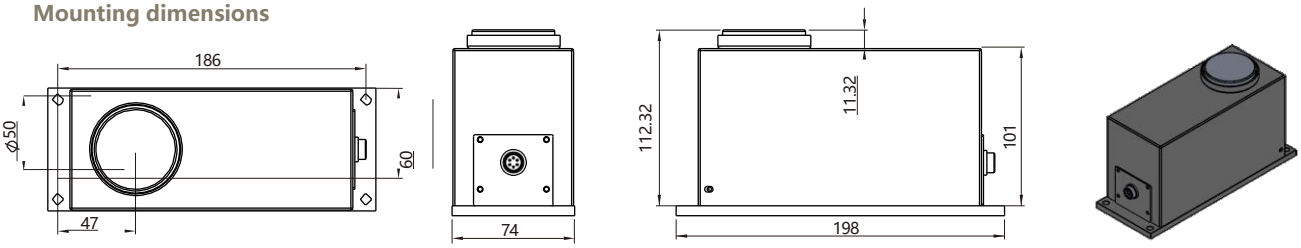
KDEV-P-9A0



Product characteristics

- KDEV-P-9A0 and KDEV-P-9A1 are high-precision weighing modules manufactured on the principle of magnetic levitation. The precision can reach
- 0.0001 grams, and the steady speed of reading is up to 2 seconds, can also be used on the customer's environment (such as: vibration, magnetic field, wind, etc.) to optimize.

Mounting dimensions



Note: This sensor comes in multiple sizes, please contact our company for details or customize it 。

Technical parameters

(Measuring range)	10/50/100/200/500/1000 g	(Measuring time)	2s
(Reading accuracy)	0.01/0.001g	(Data output rate)	15Hz
(Repeatability)	≤±0.02/0.002g	(Sensor and transmitter cable)	0.1m
(Linearity)	≤±0.03/0.003g	(Operating temperature range)	+5~+40℃
(Coefficient of thermal drift)	5×10/K	(Recommended voltage)	+5VDC
(Response time)	0.1s (better than 0.1% of the loaded weight)	(Power)	Approximately 1.5W