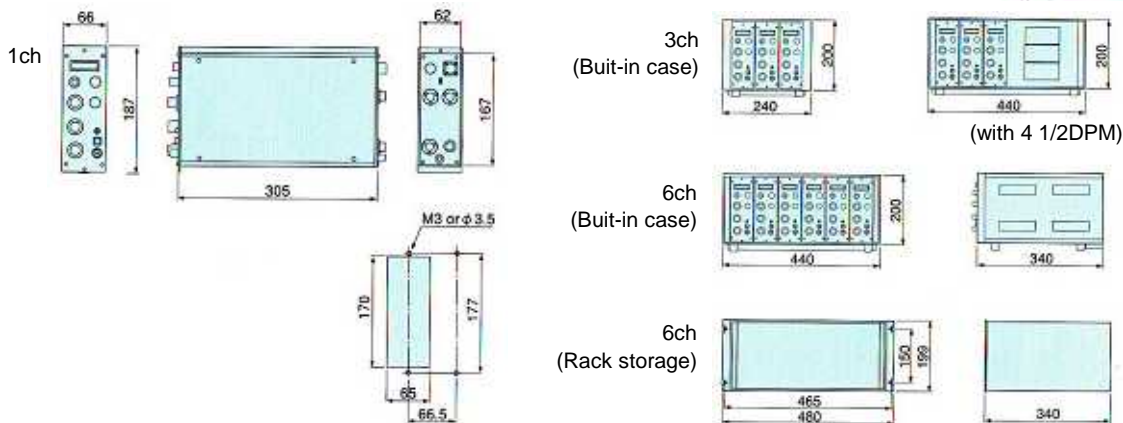


# OSC 92OT201 Direct Current Strain Amplifier

## <Features>

This DC Strain Amplifier are designed to help OSC92OT100Series Multi-component load cells exhibit their full performance. They are very stable and precise amplifiers offering high amplification and low noise.

1. Extremely high amplification up to 18,000 times
2. Excellent linearity 0.005% FS
3. Equipped with two separate dials of coarse and fine for easy adjustment of the balance
4. Built-in low-pass filter for blocking out currents with a frequency higher than 0.3Hz.
5. Excellent transient characteristics
6. A dynamic factor of 400% enables a highly precise measurement of the mean value.
7. Minimized zero drift and noise
8. Excellent in removing common-mode noise
9. Provided two large current output systems free from cross talk with each other.



Model	OSC 92OT201									
Applicable bridge resistance	60 ~ 2kΩ									
Applied voltage	3, 10VDC ±1% 5mA									
Range of balance adjustment	Coarse adjustment: ±5mV/V(±10000x10 <sup>-6</sup> strain) Fine adjustment: 1/50 of coarse adjustment									
Range of input voltage	±50mV Max.									
Input resistance	10MΩ+10MΩ(Equilibrium differential)									
Amplification	Max. 18,000 times									
Sensitivity adjuster	0.1/1, 1/2, 1/5, 1/10, 1/20, 1/50 ±0.2% and continuity variable from 1/1 to 1/3									
Rated output	±10V, 3 systems, output resistance of 50Ω for each system Total output ±10mA									
Zero drift	0.15μV/ , 1.5μA/24H(input terms)									
Sensitivity variations	0.01%/ and 0.03%/24H of measured value									
Non linearity	0.005% FS									
Lowpass filter	Frequency range: 0.3, 1, 3, 10, 30, 100, 300Hz, PASS(2kHz) Attenuation characteristics: -12dB/OCT. Vessel type									
Highpass filter	Cut Off Frequency: 0.1Hz									
Noise	Frequency range(Hz)	0.3	1	3	10	30	100	300	PASS	
	Input terms(μVp-p)	0.1	0.1	0.1	0.15	0.3	0.4	0.6	1.5	
	Strain input terms x10 <sup>-6</sup> (10V)	0.02	0.02	0.02	0.03	0.06	0.08	0.12	0.25	
Dynamic factor	400%									
Calibration strain	±200, 1000x10 <sup>-6</sup> strain Suspended on input signals of ±(0.2%+0.5X10 <sup>-6</sup> strain *Use strain values when the strain factor is 2.00									
Power supply	100VAC±10% 50/60Hz 4VA(1ch)									
Cable	1 pc x 3m per channel for power supply 1 pc x 1.5m for BNC connector									
Approx. Dimensions and Weight	1ch: 305D x 66W x 187H mm, 1.5kg 6ch: 340D x 440W x 200H mm, 13kg									