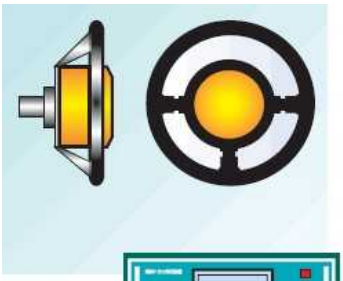
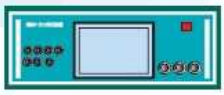
OSC 92OT205 Steering 6 Components Measuring Device

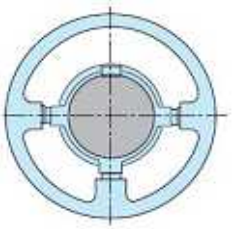
Device to measure steering angle while driving and 6 components applied to steering wheel. Possible to equip a detector to steering without modifying the steering shaft. Signal of the 6 component is amplified by the highly stabled amplifier and converted to digital via A/D converter and transmitted through slip ring for hone. Slip ring for hone supplies power to detector from external battery and at the same time transmitthe signal of the above. Further, computation device coverts rotational coordinate to state coordinate and provides automatic balance adjusting function.

<Features>

1. Measurement of 6 components on steering and steering angle by 1 detector is possible.
2. Possible to output of state coordinate after converted from rotational coordinate. (Pat.)
3. Measured signal is transmitted through slip ring for hone equipped to the vehicle. (Pat.)
4. Possible to replace with various detectors for steering.





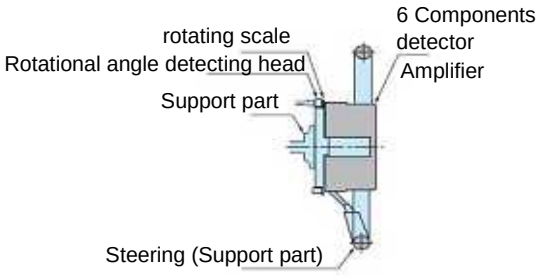


<Specifications>

Type	Rated load					
	(N) Fx	(N) Fy	(N) Fz	(Nm) Mx	(Nm) My	(Nm) Mz
-250N	±250	±250	±250	±50	±50	±50

<Common Specifications>

Tire Attitude Angle Measuring Apparatus OSC 92OT205	
Rated output	Approx. 0.5 mV/V (approx,. 1000 x 10-6 strain) *
Non linearity	±0.5% FS *
Hyteresis	±0.5% FS *
Tolerable over load	±150% FS *
Interference	between respective components ±2%FS/FS (on output after computation)
Temperature influence	at zero point: ±0.01% FS/℃* of sensitivity: ±0.03% Reading/℃*
Built-in preammplifier	200 times (for 6 ch)
Rotational angle	endless
Steering angle detector	3600 pulse/360 deg. high resolution 0.01 deg.
A/D Converter	16 Bit
Gauge voltage	DC10V
Voltage of power source	DC12V±2V
Weight	less than 5 kg



* for each component

Computation amplifier OSC 92OT205A	
AUTO BALANCE function*	Steering wheel: more than approx 1 rotation Zero point retaining time: approx. 10 days
ZERO function (state coordinate)	Output voltage :±5V manual adjustment possible
RANGE function (state coordinate)	F; 250, 100, 50, 25N, M; 50, 20, 10, 5 N-m
CAL function	OFF, 1, 2, 10V
FILTER function	1, 10Hz, PASS (50Hz) switching
MONITOR display/output	Switches signal output and angle signal before and after computation to display on the monitor. At the same time, outputs to single connector
Rated output Steering angle output voltage	6 components output voltage ±10V/FS (for each component) Angle range ±45 deg/±10V, ±180 deg/±10V, ±720 deg/±10V
Digital display	10,000V/DC
Computation accuracy	±1%FS
Working temperature range	0～50℃
Voltage of power source	DC12V±2V (power source of common battery with detector)
External Dimensions	Approx. D400 x W430 x H149mm

*Zero adjustment function by jack-up front wheel to move tires left and right