

## WFS Specifications

### Sensor

• Rated Capacity	Fx=24 KN, Fy=15 KN, Fz=24 KN Mx=4.5 KN·m, My=4 KN·m, Mz=4.5 KN·m
• Weight (Tire+Sensor)	22 kg (for the tire size 215/60 R16) 3.2 kg (Sensor part)
• Temperature Compensation Range	-10~80 °C
• Zero Effect	0.005%/RO/°C
• Span Effect	0.005%/°C
• Revolution	2000RPM

### System

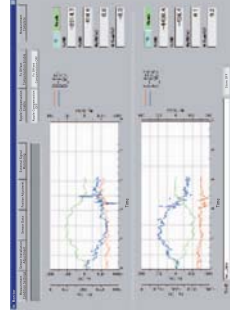
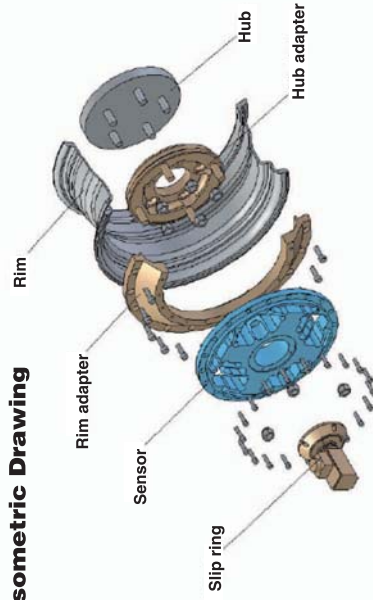
• Data Output Time Cycle (Compensation calculation processing time is a part of Time Cycle)	1 ms
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### Resolution

• Load (p-p)	6 N (1/4000)
• Torque (p-p)	1.8 N·m



### Isometric Drawing



#### WFS Display Screen

- The sensor can be customized to meet your requirements. (Rating, Resolution, Double tires, etc.)
- Tilt Position Sensor (Under development)
- Can be applied to Wind Tunnel (Weight balancing type)



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- ⚠ Attention to Safety! For proper use, read the instruction manuals carefully before use.

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- Appearance and/or specifications subject to change for improvement without notice.
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\*WFS-ADCC-02-BP2-07802

# MBS

【Model Based Sensor】

# WFS

(Distributed- Force Measurement Principle)  
(Wheel Force Sensor)

The main objective of the sensor is to capture/recognize the facts. WFS, created by the MBE (Model Based Engineering) concept, will present all the facts before your eyes.

# Super Resolution 0.1%

High Resolution 6 N /14000

High-speed Response 1 ms

Lightweight 3.2 Kg

Digital Data Links

- 6-Component Wheel Force Output (Real-time calculation from distributed force/moment measurements)
- Independent Output Compensated from Tire Uniformity (Uniformed tire characteristic is extracted from measured 6-component forces/moments in real-time.)



**Torque Demand Concept**  
**The first realization**

Patent pending

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