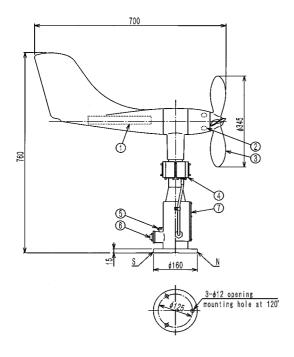
KOMATSU FACTORY CO.,LTD

KWDH-1 Heated Propeller-type Wind Speed/Direction Sensor

The KWDH propeller-type wind speed and direction sensor uses an AC generator to create the signal output from the propeller, and either a synchro motor or a potentiometer for the vane signal output. Ceramic heater modules provided on the main body prevent freezing up of the rotors and other parts during harsh winter conditions. Once a heater reaches a given temperature, current supply is controlled to maintain a stable warmth.





- 1 Vane heater
- (2) Front heaters
- (3) Propeller/polycarbonate resin
- (4) Stand heaters
- (5) Screw for terminal graund
- (6) 10-pole waterproof connector
- Terminal box connector

SPECIFICATIONS

Model W500

Speed component

Sensor Propeller-type 4-pole AC generator

Output (no-load)

45 V ±1 V AC with winds of 60 m/s

Output impedance of approx. 500Ω

Direction component

Sensor Vane: Synchro motor or dual potentiometer

Startup threshold <1.9 m/s

Measurement range

Speed 2-60 m/s (up to 90 m/s possible)

Direction 360°

Accuracy

Speed $\pm 0.5 \text{ m/s}$ @ winds $\leq 10 \text{ m/s}$

±5% @ winds >10 m/s

Direction $\pm 5^{\circ}$

Weatherability Winds ≥90 m/s
Weight Approx. 8 kg

Heater modules

Total capacity Approx. 457 W **Power source** Approx. 100 V AC **Front heaters (behind propeller)**

Heater type: Ceramic heater

Capacity: Approx. 70 W × 4 modules

Max. temp.: Approx. 260°C (Curie point)

Vane heater

Heater type: Ceramic film heater Capacity: Approx. 37 W Max. temp.: Approx. 80°C

Stand heaters

Heater type: Ceramic heater

Capacity: Approx. $70 \text{ W} \times 2 \text{ modules}$ Max. temp.: Approx. 260°C (Curie point)

TEL: 03-3719-7131 e-mail FAX: 03-3719-7134

e-mail: info@komatsuins.co.jp