

HY-SA2E Ultrasonic Anemometer for UAV

Introduction

HY-SA2E ultrasonic anemometer is designed to simultaneously measure wind speed and direction based on principle of ultrasonic wave phase shift. It's designed for continuous, long-term, unattended operation in adverse conditions. It's designed with our most compact structure. Material of its shell has two options: aluminum alloy with anodized and corrosion-resistant surface or light-weight ABS. ABS version is especially suitable for installation on UAV.

Application

Unmanned Aerial Vehicle
Weather observation
Ports and harbours
Emergency services
Coastal and ocean buoys
Agriculture and horticulture
Environmental monitoring
Crane safety alarm
Wind plant monitoring



Specification

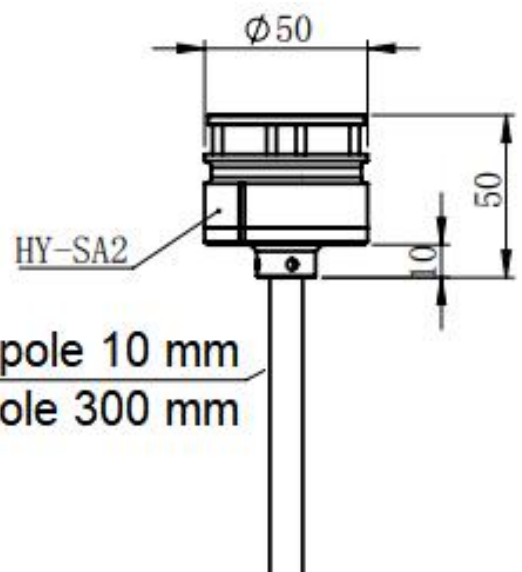
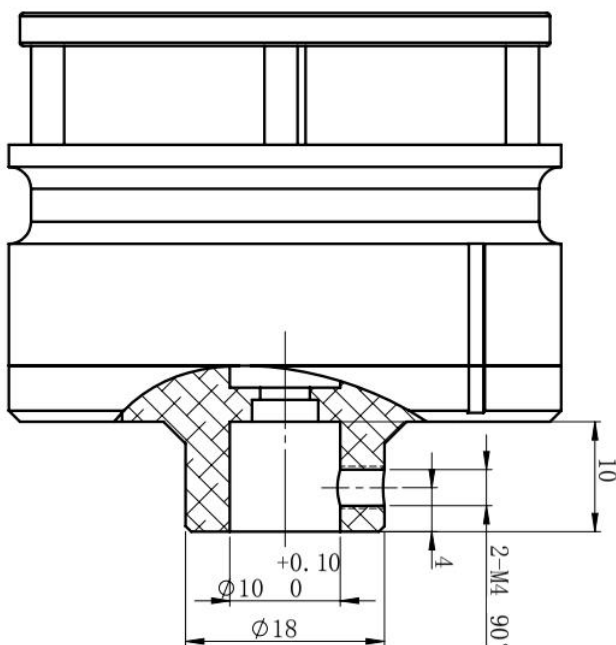
Wind Speed: 0 ~ 60 m/s Resolution: 0.1 m/s
Accuracy: $\pm 3\%$

Wind Direction: 0 ~ 360° Resolution: 1°
Accuracy: $\pm 3^\circ$

Serial Output: RS232 or RS485
Formats: ASCII, ASCII polled, NMEA0183, MODBUS-RTU, SDI-12
Baud: 1200, 4800, 9600, 19200, 38400
Wind Units: m/s

Power Consumption: 5-30 VDC < 15 mA typical
Operating Temperature: -40 ~ +70°C
Protection Class: IP65
Dimensions: $\Phi 50 \times 50$ mm
Material: ABS or aluminium alloy
Weight: 0.06 kg or 0.28 kg
Shipping Weight: 2 kg

Dimension



diameter of pole 10 mm
height of pole 300 mm



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