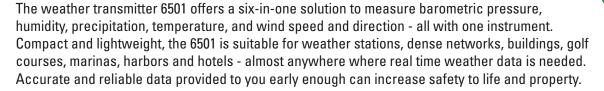
6501 WEATHER TRANSMITTER





MODEL D





To measure wind speed and direction, the 6501 incorporates the Vaisala WINDCAP® sensor that uses ultrasound to determine horizontal wind speed and direction. The array of three equally spaced transducers on a horizontal plane is a Vaisala specific design, which ensures accurate wind measurement from any horizontal wind direction without blind angles

and corrupted readings. Barometric pressure, temperature, and humidity measurements are combined in the PTU module using capacitive measurement for each parameter. It is easy to change the module without any contact with the sensors. Precipitation measurement is based on the Vaisala acoustic RAINCAP® sensor.

SPECIFICATIONS

	PHYSICAL SPECIFICATIONS	
	SIZE:	Diameter 115mm x 238mm tall, IP66
	WEIGHT:	850 grams (including three batteries)
	OPERATING TEMPERATURE:	-52°C to 60°C. Not affected by humidity
	ELECTRICAL SPECIFICATIONS	
	WIND SPEED	
	RANGE:	0 60 m/s
	RESPONSE TIME:	250 ms
	AVAILABLE VARIABLES:	average, maximum and minimum
	ACCURACY:	±3% at 10m/s
	OUTPUT RESOLUTION:	0.1 m/s, 0.1km/h, 0.1 mph, 0.1 knots
	WIND DIRECTION	
	AZIMUTH:	0 360°
	RESPONSE TIME:	250 ms
	AVAILABLE VARIABLES:	average, maximum and minimum
	ACCURACY:	±3% at 10m/s
	OUTPUT RESOLUTION:	1°
PRECIPITATION		
	RAINFALL:	Cumulative accumulation after the latest automatic or manual reset
	COLLECTION AREA:	60cm ²
	OUTPUT RESOLUTIONS:	0.01 mm (0.001 inches)
	ACCURACY:	5%

AID TEASDED ATLIDE		
AIR TEMPERATURE		
RANGE:	-52 +60°C (-60 +140°F)	
ACCURACY FOR SENSOR AT +20°C:	±0.3°C (±0.17°F)	
OUTPUT RESOLUTIONS:	0.1°C (0. 1°F)	
RELATIVE HUMIDITY		
RANGE:	0 100 %RH	
ACCURACY FOR SENSOR:	±3 %RH at 0 90 %RH ±5 %RH at 90 100 %RH	
OUTPUT RESOLUTIONS:	0.1 %RH	
PTU MEASURING INTERVAL:	1 3600 s (= 60 min), at one second steps	
BAROMETRIC PRESSURE		
RANGE:	600 1100 hPa	
ACCURACY:	±0.5 hPa at 0 +30°C (+32 +86°F) ±1 hPa at -52 +60°C (-60 +140°F)	
OUTPUT RESOLUTIONS:	0.1 hPa, 10 Pa, 0.001 bar, 0.1 mmHg, 0.01 inHg	
OPERATING VOLTAGE:	6 24 VDC	
TYPICAL CURRENT CONSUMPTION:	3 mA at 12 VDC (with defaults)	
OUTPUTS:	SDI-12, RS-232, RS-485, RS-422	
CABLE:	5m of 8 core cable	