



TOIP Pty
Ltd
Telemetry Over Internet Protocols

RK120-03 Ultrasonic Wind

The RK120-03 is an Ultrasonic Wind Speed and Direction sensor. The sensor measures wind using a set of 3 ultrasonic sensor elements, mounted at the corners of an equilateral triangle. The movement of air changes the speed at which the ultrasonic signals travel between the elements and this is mathematically converted into values for the wind speed and direction.

SDI-12 Wind Speed and Direction

Whilst mechanical anemometers remain the mainstay of wind monitoring, there are times when a mechanical sensor is not the best option - for example in corrosive environments or when there is a risk of damage from machinery movement.

The RK120-03 is fitted with an SDI-12 interface - an RS485/MODBUS version is also available on request. A heated version is also available.

The sensor is supplied with a stainless steel mounting bracket and 3m cable.



Parameter	Specification
Power Supply	12 to 24 V DC
Power Consumption	-1W
Wind Speed range	0 to 60 m/s
Wind Direction range	0 to 360 degrees (no dead zone)
Wind Speed accuracy	< 10 m/s +/- 0.2, > 10 m/s < +/- 2%
Wind Direction Accuracy	+/- 3 degree
Start Threshold	0.1 m/s
Weight	2.5kg

Ordering

RK120-03

Ultrasonic wind speed and direction sensor SDI-12

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