

USER REPLACEABLE • FITS ANY KESTREL® HAND-HELD WEATHER METER

- High precision axle and jewel bearings
- Light weight impeller
- 25mm diameter
- Factory calibrated
- Fits all Kestrel models
- Quick and easy to replace – no tools required



DESCRIPTION

The impeller assembly is sold as a replacement impeller for all models in the Kestrel hand-held instrument range. It can also be used in other flow measurement applications.

The light weight impeller is mounted on a precision axle with jewel bearings to provide accurate flow measurements even at low wind speeds. A magnet is mounted on the axle so the impeller's rotation can be easily sensed.

The impeller housing is designed so no adjustment of the bearings is required and during manufacture each assembly is individually tested in a wind tunnel. This ensures that when a new impeller assembly is installed in a Kestrel instrument the accuracy of the instrument is restored to within specification.

The assembly is supplied with a retaining o-ring.

SPECIFICATION

Physical

Impeller diameter:	25mm
Housing diameter:	30mm
Housing depth:	14mm
Weight:	5g approx
Bearings:	Sapphire

Performance

Operational range:	0.4m/s to 60m/s
Specification range:	0.4m/s to 40m/s
Accuracy:	±3%
Calibration drift:	<1% after 100hrs operation at 7m/s

Certification:

Wind speed measurements are tested during manufacture

(US Patent 5,783,753)

REPLACING THE IMPELLER



Press firmly on the sides of the black impeller housing with your thumbs to remove the entire housing.

There is a small arrow icon on the new impeller's housing. When inserting the new impeller, be sure the arrow is facing the front, or display side, of the meter. If your Kestrel has an arrow on the Kestrel unit (either at the 12:00 or 5:00 position), align the arrow on the impeller with the arrow on the meter. If there is no arrow on the Kestrel, make sure the arrow on the impeller is pointing to the top of the meter (at the 12:00 position).

Press on the sides of the impeller housing rather than the centre.

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