

## Brushless DC Thruster

### Model ARS-U1000



These 1KW thruster units provide a low maintenance, high power propulsion unit for use on underwater vehicles to a depth of 5000 metres.

The propeller is directly driven at up to 2800 rpm by a 1000 watt output, brushless DC motor that is located together with its electronic controller inside an oil filled and pressure compensated stainless steel housing.

An 8 pin wet mateable underwater connector at the end of a 1 meter long penetrator cable allows installation or removal of the thruster even in adverse weather conditions.

Alternative connectors can be fitted on request.

Protection against the following conditions has been included in the design:

- Direction reversal while at high speed.
- Overload due to fouled propeller.
- Where possible, the controller will attempt to recover from the fault and restart automatically



MODEL ARS-U1000 THRUSTER SPECIFICATION	
Output Power	1000 Watts
Propeller Speed	0 to 2800 RPM
Thrust	Measured at over 30Kg (66lb)
Supply Voltage—Standard	145 to 160 volts dc
Operational Temperature	-10 to +30 deg C
Overall Length	330mm (13in) including Propeller duct
Diameter	84mm (3.3in) body / 159mm (6.3in) duct
Operational Weight	5.8Kg (12.8lb) in air / 4.1Kg (9lb) in fresh water
Depth rating	5000 metres