AURORA
PROPULSION TECHNOLOGIES

DATASHEET | ARM-O LP

Aurora Resistojet Module - Orbit control

ARM Product line

ARM-A	**ARM-O**	ARM-C
ARM-AO	ARM-E	MEPE

ARM-O LP is a water-based propulsion module for small satellites with a limited power budget. Two thrusters deliver 3 mN of thrust at beginning of life, at 5 W per mN. The thruster heads are adjusted toward the satellite's centre of mass, so a burn moves the satellite without spinning it. After a 60-second preheat the module responds in 2 milliseconds, which allows short, precise pulses for station keeping, phasing and formation flying. ARM-O LP is shipped fuelled with water: non-toxic, unpressurised at launch, and no operations at the launch site.



TECHNICAL SPECIFICATION

The below configurations are available without customization, but other configurations can also be built.

	Small LP	Medium LP
Form	0.6 U	1 U
Total impulse	120-150 Ns	250-300 Ns
Wet mass	0.7 kg	1 kg
# of thrusters	2	
Thrust	3 mN (BoL)	
Control interface	Either direct electrical interface, or digital through RS-422	
Power	5 W/mN	
Thrust vector	Thruster heads adjusted toward centre-of-mass	
Response time	Preheat 60 s, nominal mode 2 milliseconds	
Lead time	6-9 months	