

Technical Parameters and Specifications of the HotPay Services to the Applicants Provided by ARR

Category	Specific	Value	Comments
Mechanics	Volume, Total; Nosecone	9.3 l	Ogive 4:1
	Volume, Total; Centre Section	25.5 l	
	Number of Instruments, Typical	5 - 7	
	Weight, Total; Instruments	10 - 15 kg	
	Weight; Each Instrument	1 - 2 kg	
	Inner Diameter, Available	180 mm	
Electrical and Power Consumption	Available Power, AC	NA	
	Available Power, DC	28 V	
	Available Power, All Instruments	2 - 4 Ah	
	Available Power, Each Instrument	250 - 300 mA	Typical
Telemetry	Transmitter Power	2.5 - 10 W	Dependent on BW and altitude
	Modulation Type	PCM - FM	
	Bit rate	Max 10 Mbit/s	RNRZ
	Analogue Resolution	10 bits	A/D converter
	Total Bandwidth available		
	Word Length	8 bit	
Pre Test of Instruments done by ARR	Electrical; interference	Yes	
	Environment; Temperature & Pressure	(Yes)	It is preferable that the applicants do this test by themselves
	Balance; Dynamic & Spin	4 - 6 Hz	Typical
	Mechanical; Vibration	0 - 2 KHz	FFI/NATECH
Launch Load and Strain of the Payload	NA	NA	
	Temperature, inside	~ 50 °C	
	Spin	4 - 6 Hz	
	Acceleration	< 40 g	
	Atmospheric Discharge	Happens	
	Magnetic Field	Yes	
	Power Interrupt	Yes	A few ns due to the disconnection
Housekeeping and Service Modules Available	Magnetometers	X, Y and Z	
	Accelerometer	X and Z	
	Temperature Sensors		Several
	Current and Voltage Monitoring		Of all instruments
	Sun sensor		

NOTE: Using standard electronic components (70 ° C) will be normally being sufficient

NOTE: The typical test conditions of the instruments before launching will be similar to the expected strain during the experiment.

NOTE: No recovering of the instrument and no motor separation from the payload