



# Pyro Commands Distribution Unit

## OVERVIEW

Dispatch the all-fire current to 6+6 connected squibs

Dispatch the all-fire current even if 1 out of 6 squibs is in short circuit

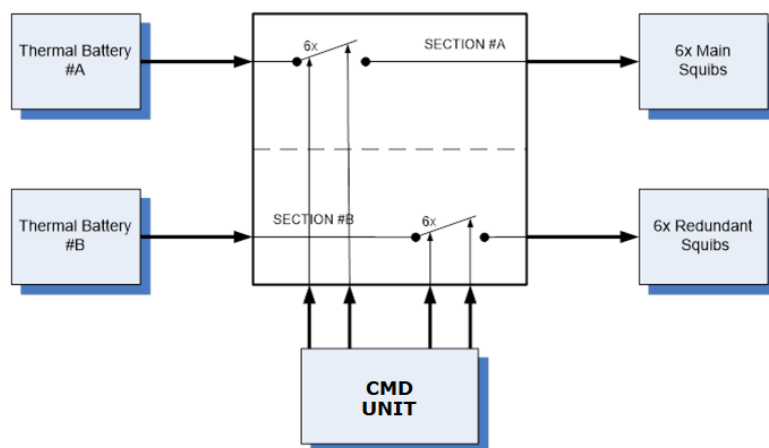
Provide a test interface to verify continuity and isolation of the internal circuitry

## FEATURES

Dimension	[249 159 65] mm
Mass	1.46 kg
Input voltage	24.5 ÷ 32.0V
Max input current	42A
Current peak time	~80ms
Steady-state current	<100uA
Pyro channels Delay	< 10us
Equalizing resistor	166mΩ

## ENVIRONMENTAL SPEC

OP: Temp:	-20°C to +70°C
NON-OP Temp:	-40°C to +85°C.
Humidity up to	100% non condensating
Sine Vibration up to	22.5g
Random Vibration up to	20gRMS
Shock up to	10000g
EMC	Full Test Campaign



## Contact information

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# Heat Flux Sensor Conditioner (HFSC)

## OVERVIEW

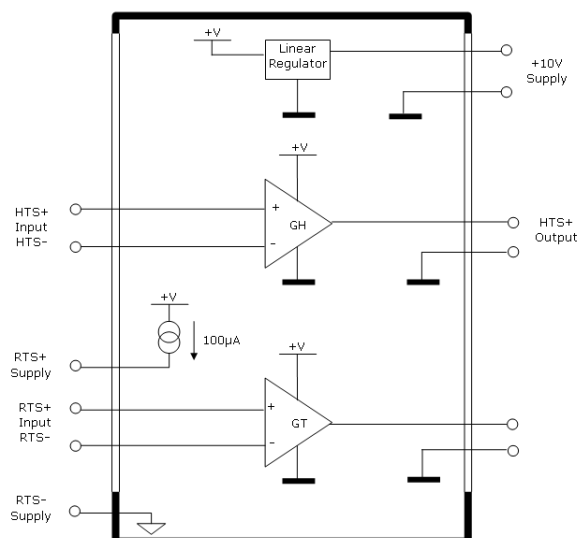
The Heat Flux Conditioner has in charge the signal conditioning of the Vatel HFM-7 E/H sensor converting it to the correct level required by the acquisition units, it is basically a double differential amplifier one for the heat flux sensor and one for the Pt100 temperature sensor

## ENVIRONMENTAL SPEC

OP: Temp: -20°C to +70°C  
 NON-OP Temp: -40°C to +85°C.  
 Humidity up to 100% non condensating  
 Sine Vibration up to 11g  
 Random Vibration up to 12g  
 Shock up to 10000g

## FEATURES

Dimension [76 82 25] mm  
 Mass 170 g  
 Input voltage 9 ÷ 11V  
 input current 20mA  
 Heat flux conditioner [-4 4]mv to [-2 2]V  
 Passband frequency ≥ 1.7 kHz  
 PT100 conditioner 100μV/ Ω  
 Output impedance <200 Ω



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