

The Chemring Energetics UK site at Ardeer has been producing energetic devices for over 100 years and is world renowned for its expertise in this industry.

Our range of Gas Generators are designed for use in lightweight modular systems where high risk fire sources require automatic protection. CEUK are able to provide custom designed solid Gas Generators which are ideal for rapidly expelling powder or for use with liquid systems where a controlled pressure output is necessary. The basic purpose of the Gas Generator is the controlled evolution of gas at a desired pressure to evacuate various sizes of fire suppression cylinders in a short amount of time.

Advantages

Greater Control of Pressure

The pressure is only generated when the system functions and is controlled to provide the most effective pressure/ time profile for the application.

Weight savings

No gas bottle, no pressure vessel, no pressure regulator

Space Savings

Reduced pipework

Little or no maintenance

No pressurised gas to check

Enhanced Performance

Low Operating pressures; uniform output

Simple to Install

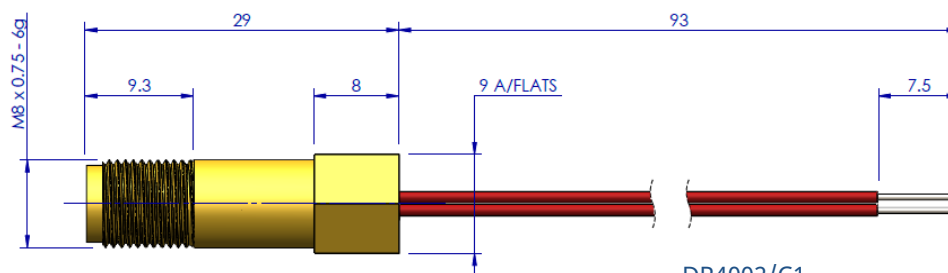
No mains water or power supply required

Highly Reliable

Developed from Aerospace Technology

Safe

The absence of pressurised cylinders reduces the dangers that are apparent in alternative designs



DR4002/C1

Chemring Energetics UK Ltd

Ardeer Site, Stevenston, Ayrshire, KA20 3LN, UK

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Registered Office: Ardeer Site, Stevenston, Ayrshire, KA20 3LN

Approved to ISO 9001 | Part of the Chemring Group

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Issue 03

For more information visit:

www.chemring.com/chemring-energetics-uk

The information in this datasheet should not be used as a technical specification, for engineering calculations, or for system design and integration. It is provided in good faith and is subject to change without notification. It is for the customer and/ or System Design Authority to satisfy themselves of the safety and suitability for its own particular purpose

Specification

Available cable finishes:	C1, C81
Nominal Energy (Millijoules)	6
Resistance Range (Ohms) ¹	0.9—1.6
Service Life (ambient)	10
Operating Temperature (oC) ²	-40 to +100
No-Fire Current (Amperes) ³	5 sec Pulse 0.3
Min Single Fire Current (Amperes) ⁴	DC: 0.6 1 (recommended) 10ms pulse 0.9
Series Firing Current (Amperes) ⁵	3
Function Time (Milliseconds)	10 - 20

1. Dependant on cable finish
2. For up to 20 hours provided any temperature greater than +70°C occurs immediately prior to firing
3. The fuzehead may be desensitised by being subjected to currents between the maximum recommended monitoring test current and the No Fire Current (inclusive) and is not guaranteed to fire afterwards.
4. CEUK recommend that 1 Amp should be used, and other values are provided only as a reference to the minimum firing current to initiate a single actuator in a circuit.
5. CEUK recommended a minimum of 3 Amps to initiate more than one device in a circuit.

DR4002/C1

Product Code	040265
Hazard Class	1.4G
UN Number	0431
Proper Shipping Name	ARTICLES, PYROTECHNIC for technical purposes

DR4002/C81

Product Code	093017
Hazard Class	1.4S
UN Number	0323
Proper Shipping Name	CARTRIDGES, POWER DEVICE

DR4002/C1 Shipping (In approved pack)

Outer Pack	Fibreboard Box
Quantity per pack	100
Minimum Order Quantity	200
NEQ (per pack)	0.0115kg
Dimensions	229 x 161 x 141mm

DR4002/C81 Shipping (In approved pack)

Outer Pack	H83 Steel box
Quantity per pack	50
Minimum Order Quantity	200
NEQ (per pack)	0.0125kg
Dimensions	300 x 160 x 190mm

Cable Finish Descriptions

C1	Hexagonal end cap. PTFE Sleeves. 95mm long. (Red)
C81	Hexagonal end cap. Plastic Overmould. Multistrand leads 1000mm long. (White & Red)

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