



Product Manual 2012/13

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Introduction

The UML range of inflation products is used by the majority of lifejacket manufacturers in Europe, Scandinavia , Australia and the Far East. The various assemblies are rigorously tested and independently approved in accordance with the ISO Component Standard for lifejackets 12402 Part 7. Only top quality raw materials are used in their construction and all of the manufacturing and testing procedures in use in our factories are embodied in a quality system approved in accordance with **BS EN ISO 9001:2008**, which is accredited by **The British Standards Institute**.

Pre-production testing and subsequent product approval is implemented at the appropriate UK Notified Body in accordance with the relevant ISO 12402 Part 7 and SOLAS Standards requirements. In addition, components are also regularly pool tested by UML staff, using various styles and lifejacket brands, to ensure compatibility and optimum performance is maintained at a high level.

In our production facilities, processes and manufacturing instructions are clearly and concisely displayed, ensuring that our fully trained assembly technicians maintain a high, repeatable quality standard.

The substantial commitment to practical testing of UML products, in conjunction with a wide range of life-jackets, provides the stimulus for product upgrades and improvements. These are combined with on-going product developments to meet every day needs in addition to the demands of the latest **ISO Component Standard (ISO12402 -7)** for inflatable lifejackets with the result that UML products remain at the leading edge of industry performance.

UML product improvements or new product ideas are documented and developed by a professional team of design engineers who take the individual projects through concept, prototype on to the tooling and production stages.

A commitment to R&D, design and new product development ensure that the range always remains ahead in terms of performance, innovation and cost.

The inflators are available from stock with re-charge kits being available from most distributors of marine products.



MK5 Automatic Inflator

Part Number: UMA4012/C160 (This part replaces UMA4012/B160).

Description: MK5 Auto Inflator Assembly Yellow - 1/2" with 160mm long nylon pull cord.

Spare Cartridge: UMA5000 (This part will replace existing cartridge UMA4005/C).

Special pull cords lengths are available at a premium price, made to order.

The **MK5 Automatic** lifejacket inflator is a robust, compact unit used in both leisure and commercial activities. This unit supports both manual and automatic inflation activation, with the dual status indication system confirming that the inflator has been activated. The product is approved in accordance with the **ISO Standard** requirements for inflatable lifejacket components.

On entering the water, automatic activation of the unit usually takes less than 1 second and the re-charging procedure is quick and simple.

MK5 Automatic Inflators are available on demand, with re-charge kits being stocked by most distributors of marine products.



Pro Sensor[®] Automatic Inflator

Part Number: UMS4031/C160 (This part replaces UMS4031/B160).

Description: Pro Sensor Auto MK2 1/2" with 160mm long nylon pull cord .

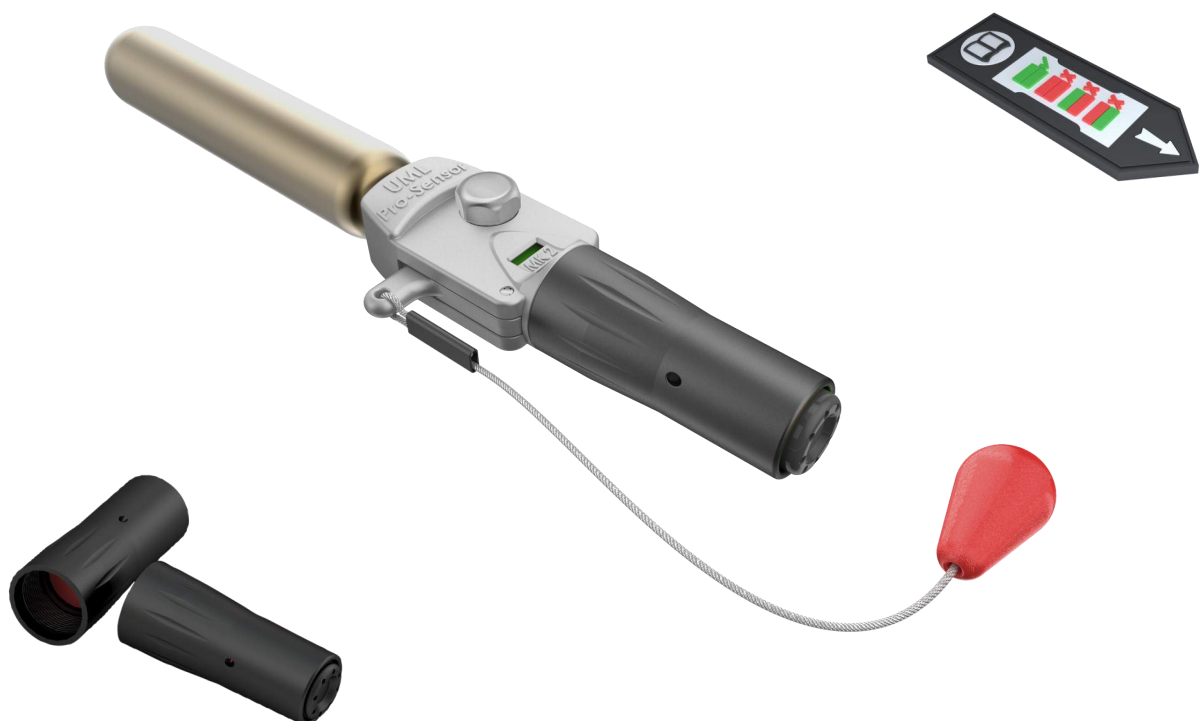
Spare Cartridge: UMA5001 (This part will replace existing cartridge UMA4005/D).

Special pull cords lengths are available at a premium price, made to order.

This latest professional lifejacket Inflator, the Pro Sensor[®] MK2 Automatic, supports both manual and automatic inflation facilities, being approved at an appropriate UK Notified Body in accordance with the ISO Standard requirements for inflatable lifejacket components.

The unit upgrades the standard MK5 Automatic Inflator, by affording the user one focal point of status indication, confirming if the unit has been automatically or manually activated. The other significant benefit is the unique CO2 cylinder sensing device which, via the centralized indication, clearly confirms if the CO2 cylinder has been pierced, totally alleviating the possibility of the user accidentally fitting a pierced, empty gas cylinder. On entering the water, automatic activation of this unit takes less than 1 second and the re-charging procedure is simple to action and remarkably quick. Pro Sensor[®] Automatic MK2 Inflators are available on demand, with re-charge kits being stocked by most distributors of marine products.

A badge is available with each Pro Sensor[®] Automatic inflator, giving a clear guide to status indication.



Pro Sensor® Manual Inflator

Part Number: UMS4021/A

Description: Pro Sensor Manual Inflator MK2 with 160mm long nylon pull cord.

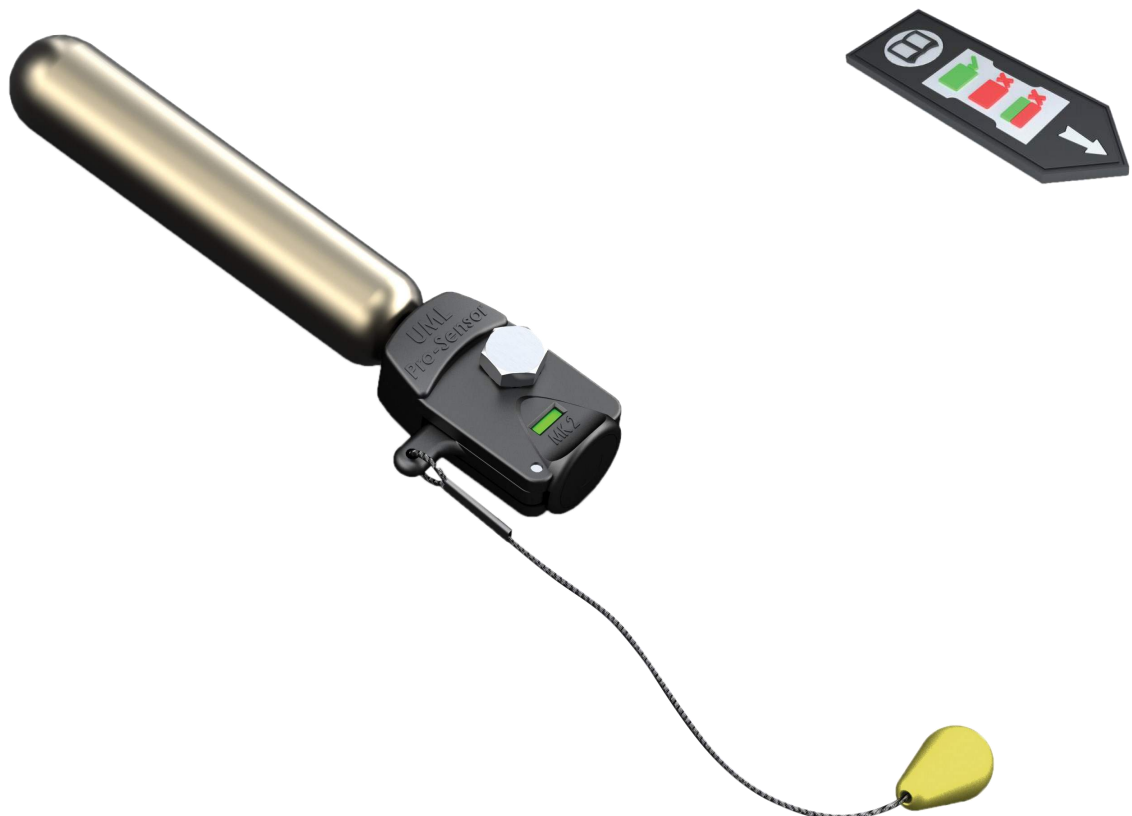
Special pull cords lengths are available at a premium price, made to order.

This latest professional lifejacket Inflator, the **Pro Sensor® Manual** is approved at an appropriate UK Notified Body in accordance with the **ISO Standard** requirements for inflatable lifejacket components.

The unit upgrades the **Mini Manual** compact manual inflator, by affording the user the significant benefit of the unique CO2 cylinder sensing device which, via the centralized indication, clearly confirms if the CO2 cylinder has been pierced, totally alleviating the possibility of the user accidentally fitting a pierced, empty gas cylinder.

Pro Sensor® Manual Inflators are available on demand, with re-charge kits being stocked by most distributors of marine products.

A badge is available with each Pro Sensor® Manual inflator, giving a clear guide to status indication.



Compact Mini Manual Inflator

Part Number: UMS1700/A

Description: Mini Manual Assembly 1/2" with 160mm long nylon pull cord.

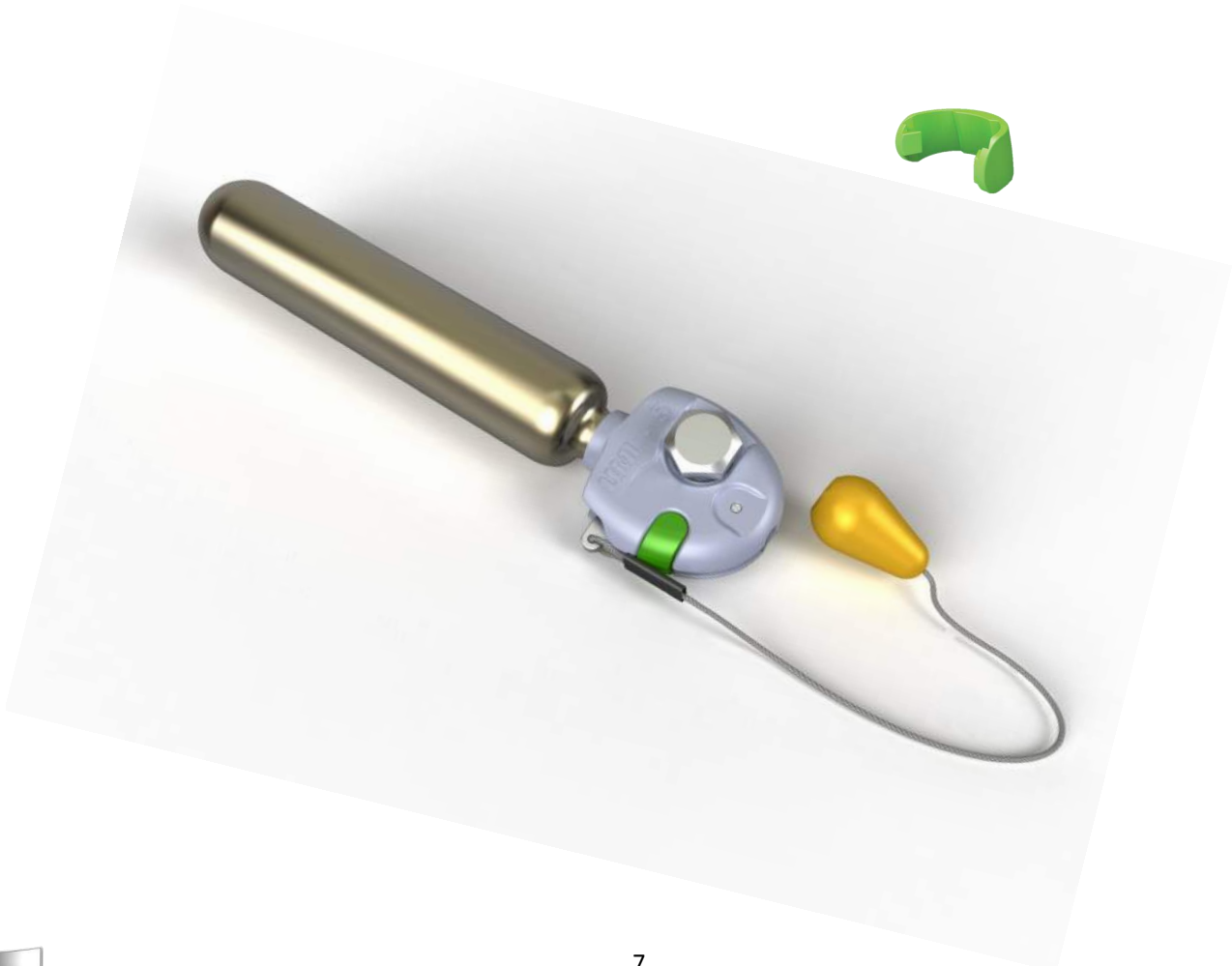
3/8" threaded units are available, made to order.

Special pull cords lengths are available at premium price, made to order.

The Mini Manual lifejacket inflator is a small, strong, lightweight product used in both commercial and leisure applications, benefitting from trouble free maintenance. The unit is manually activated with the minimum pull force required to initiate jacket inflation.

The unit is approved at an appropriate UK Notified Body in accordance with the **ISO Standard** requirements for inflatable lifejacket components.

Mini Manual Inflators are available on demand, with re-charge kits being stocked by most distributors of marine products.



Sea Flash® Lifejacket Lights



Part Number: LNK-LJ-02A2-UML1

Description: UML Sea Flash (Standard Flash Sequence).

Part Number: LNK-LJ-02A2W-UML1

Description: UML Sea Flash (Multi Flash Sequence).

UML Sea Flash® lights are extremely bright LED flashing lifejacket lights which automatically activate when the small sensor at the end of the trailing wire makes contact with the water. The UML light can be activated manually (both on and off) when the water sensor is in the water by simply pressing the red button on the main body of the unit. Also available without trailing wire:

Part Number: LNK-LJ-02C1

Description: UML Sea Flash without trailing wire.

Part Number: LNK-LJ-02A2-UML1BKT

Description: UML Sea Flash Bracket.

Sea Flash® lights have been tested and approved to the latest Lifejacket Standards and are marked with the SOLAS “Ships wheel”.

Sea Flash® (Multi Flash Sequence), FLASHING—STEADY—SOS—OFF flashing sequence is available by pressing the manual switch whilst the sensor is in the water.



Oral Inflation Tubes

Part Number: UMA0100

Description: 100mm Oral Tube Assembly.

Part Number: UMA0150

Description: 150mm Oral Tube Assembly.

The UML Oral Tube is manufactured from a durable and flexible grade of polyether based polyurethane, being available in two standard lengths, 4" (100mm) and 6" (150mm).

The unit contains a sensitive, robust one-way Oral Valve which seals using a very high quality NBR moulding.

The black polyurethane dust cap, fitted as recommended when the jacket is in use, serves to protect the Oral Valve, this cap can also be turned over and used to open the oral valve, to deflate the lifejacket.

The 2010 version incorporates a new valve body feature which can be used to more readily removed the valve to support servicing .

Important Information:

The oral tube is designed for oral inflation pressures of approximately 1 P.S.I. and care must be taken when inflating the life jacket through the oral tube with compressed air, it is recommended therefore that inflation pressures do not exceed 20PSI/1380mbar.



High Performance Polymer Manifold

Part Number: UMA4060/A

Description: Plastic Round Core Manifold Assembly.

A brass round core version is also available:

Part Number: UMA4061/A

Description: Brass Round Core Manifold Assembly.



This product is used in conjunction with the UML 'O' Hole inflators detailed on page 11.

Introducing the all new polymer Manifold Adaptor, this product has undergone rigorous testing and all manifold adaptors meet the requirements of ISO Standard 12402-7 covering components for inflatable lifejackets.

The manifold features a round core with a flat lock fixing design which locks the manifold in position against the inflator head. This innovation enables the wall section of the main core to be thickened, improving shear and impact strength.

Once the firing head is fitted to the Manifold Adaptor it is fixed in position, using a TORX-secure stainless steel fastener, forming a unique anti-tamper lock.

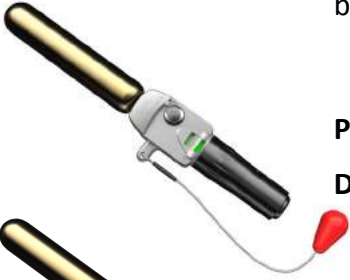


In addition a TORX Lock moulding is provided which fits onto the TORX fastener providing additional security.



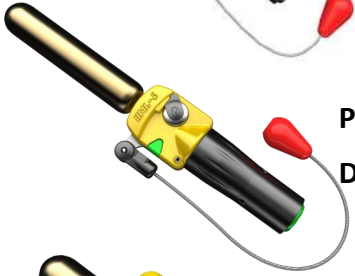
Inflator Part Numbers for the HPPM

The following inflators are for use on the High performance Polymer Manifold and brass round core version.



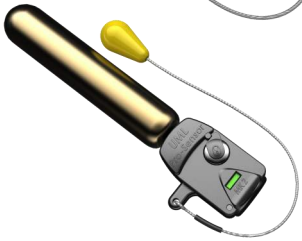
Part Number: UMS4037/C160

Description: Pro Sensor Auto MK3 1/2" 160mm Nylon pull Cord ("O" Hole).



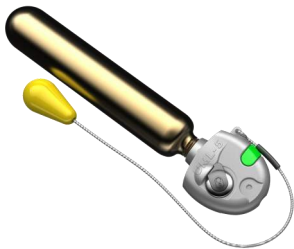
Part Number: UMA4017/C160

Description: MK5 Auto Inflator Assy Yellow 1/2" 160mm Nylon Pull Cord ("O" Hole).



Part Number: UMS4027/A

Description: Pro Sensor Manual Inflator MK3 ("O" Hole).



Part Number: UMS1707/A

Description: 2010 Compact Mini Manual Inflator 1/2" Grey MK3 ("O" Hole).

Part Number: UMS1717/A

Description: 2010 Compact Mini Manual Inflator 3/8" Grey MK3 ("O" Hole).



Over Pressure Relief Valves

Part Number: UMA4045/A

Description: Pressure Relief Valve Assembly combined with cylinder retention.

Part Number: UMA4045/B

Description: Pressure Relief Valve Assembly combined with cylinder retention +25%

Part Number: UMA4045/A-SF

Description: Compact Pressure Relief Valve.

Part Number: UMA4045/B-SF

Description: Compact Pressure Relief Valve + 25%.



Part Number: UMA4046

Description: PRV Service Kit.

Part Number: UMA4044

Description: Cylinder Retaining Pad Kit.

The pressure relief valves are designed for heavy duty commercial inflatable lifejackets, they are easy to install and specifically designed for ease of servicing, using the spares kits which are readily available from stock.

The units are approved against the requirements of the **SOLAS** and **ISO12402-7** component standards for inflatable lifejackets.



Cylinder Safe-Cylinder Retention

Part Number: UMA4075

Description: Cylinder Safe 33g

Part Number: UMA4080

Description: Cylinder Safe 18g

Cylinder safe is a unique product designed as a low cost solution for retaining the CO2 cylinder.

Cylinder safe simply fits between the manifold and inflator, a retaining ring holds the cylinder and onto Cylinder safe. The retaining ring combined with the textured finish on the product prevents the CO2 cylinder becoming loose during use.



Spares

Pro Sensor® Automatic



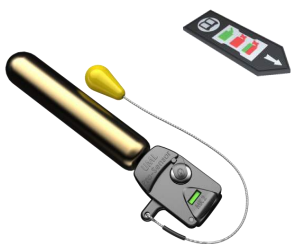
Cartridge	UMA5001
Status Badge	UMO4036
Gas Seal O Ring 1/2"	UMO0005
Gas Seal O Ring 3/8"	UMO0003
Manifold O Ring	UMO4009
Tyvek Label	UMS4016

Mk5 Automatic



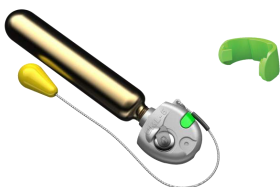
Cartridge	UMA5000
Manual Indicator	UMS4014
Gas Seal O Ring 1/2"	UMO0005
Gas Seal O Ring 3/8"	UMO0003
Manifold O Ring	UMO4009
Tyvek Label	UMS4015

Pro Sensor® Manual



Status Badge	UMO4035
Gas Seal O Ring 1/2"	UMO0005
Gas Seal O Ring 3/8"	UMO0003
Manifold O Ring	UMO4009

Compact Mini Manual



Manual indicator	UMS1622
Gas Seal Flat Washer 1/2"	IU-UMO1625-02
Manifold O Rings	UMO4009

TORX Lock Moulding

UMS4041/A

RESISTORX Security Fastener

UMS4042/A

Woods Valve Core Assy

UMA4040/A

Brass D Core Assy 4575H

UMS1670/1

Replacement Core for Brass D Core

IU-4575H

Black MK5 1/2" Flat Washer

IU-UMO1625-02

Black MK5 Manual Indicator

UMO1622



Further Information

For all the latest product information, technical downloads and service instructions please visit our website www.uml.co.uk

The following tools are available to support lifejacket manufacturers:

Torque Screwdriver pre-set 3Nm (Manifold Nut)

Torque Screwdriver pre-Set 0.6Nm (Manifold Valve)

Deflation Adaptor for Oral Tubes Large

Deflation Adaptor for Oral Tubes Small

Oral Tube Welding Jigs

Manifold Welding Jigs

Cylinder Brass Disc Test Holders

Small Schrader valve hand tool

Pressure gauge monitors

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