

# FUEL Tek

A unique fuel measurement system giving a **100%** readout facility

Ultramagic are proud to announce that after nearly 3 years in design, development and testing, the **FUEL Tek** propane fuel measuring instrument system is in the final stages of production and certification.

The **FUEL Tek** is probably the most significant technical innovation to be introduced into ballooning for many years. The safety improvement implications are obvious as well as the convenience of having such valuable pilot information available at the push of a button.



First **FUEL Tek** production units



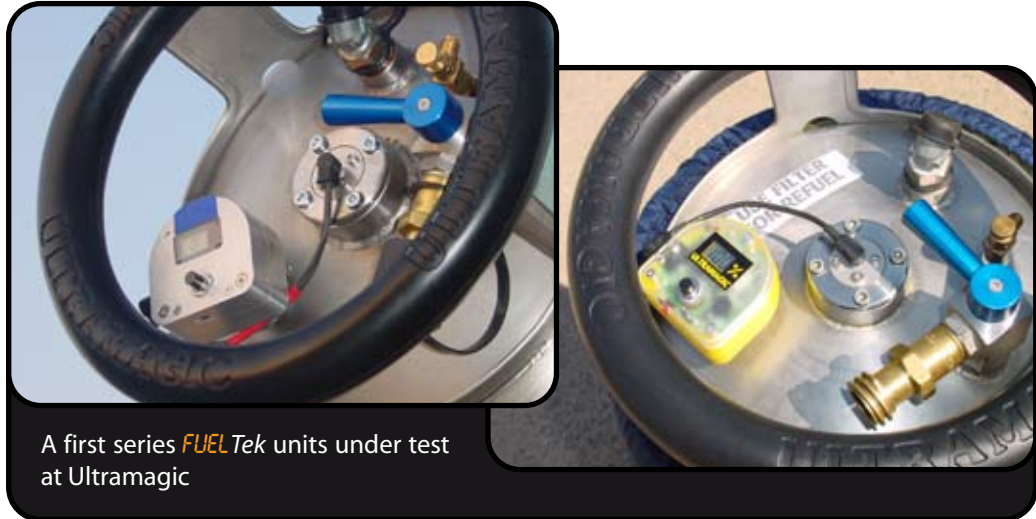
Now for the first time in a hot air balloon it will be possible to know exactly how much fuel is available at any time during the flight and not just when the cylinders are coming close to empty.

**FUEL Tek** System

A giant leap in ballooning. Available only from Ultramagic

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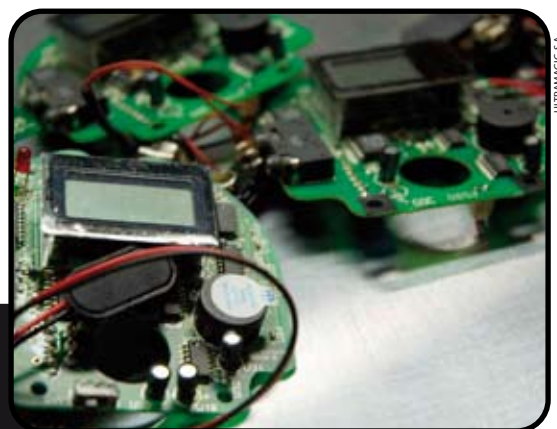


A first series *FUEL Tek* units under test at Ultramagic



## Extensively proven and tested

*FUEL Tek* robust circuitry has been developed and tested for over 2 years and meets the requirements of a safe and reliable system. This is guaranteed thanks to the involvement of vanguard European companies and technicians, working together with the ULTRAMAGIC design department.



Prototype circuit boards prior to assembly

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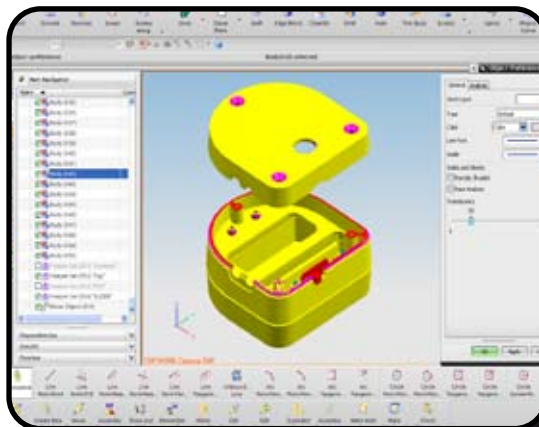
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## That sounds good but, what exactly is the FUEL Tek?

The **FUEL Tek** system consists of a portable electronic display which informs you of the fuel remaining in a cylinder in real time. The display is connected to a sensor fitted in the cylinder and replaces the existing limited analogical display.

The instrument read out system can be installed neatly on top of any Ultramagic cylinder on the blank boss or alternatively it can be fitted on a remote instrument pod. The instrument sensor can also be retrofitted to any Ultramagic cylinder.



Development of the gauge box design in Ultramagic

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## What are the benefits?

The advantages provided by the **FUELTek** are many and useful, offering a degree of safety never reachable before. Apart from the obvious full range reading, its display gives no room for confusion, even in low light conditions. Audible safety warnings are built in giving indications when reaching reserve and low fuel levels. The system is also useful during the refill process, controlling the flow, spotting any abnormality and preventing cylinder overfill.

An additional benefit is that the electronic gauge gives an impressive look to your balloon equipment that your passengers will find it hard to ignore!

## Can I connect the FuelTek to my computer?

Software facilities also exist for integrating the **FUELTek** into a computer system to give real time fuel consumption figure and projected fuel reserves available.



Pre-production units during the test program

## Safety First.

A giant leap such as this may raise a number of questions when changing to the new technology. ULTRAMAGIC has consciously developed a secure system capable of resisting the most demanding conditions for a long period in service. The design is conceived to withstand any single failure, and is independent to the fuel outlets and valves installed on the cylinder. To sum up, it's the only way it could be from the hand of ULTRAMAGIC – Safe and Sound.

In spite of being an electronic power demanding component, its internal battery provides autonomy for almost 24h. A battery status check and a low charge warning prevent inadvertent shutoffs. External power packs may be easily connected as well.

**FUELTek** System

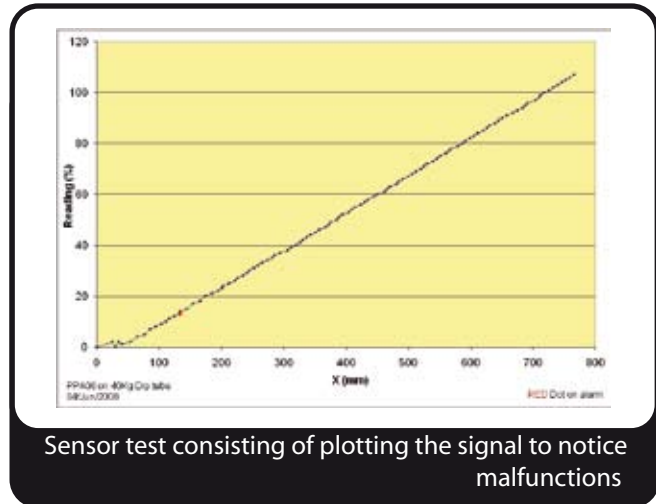
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The rigorous and accurate testing program of each component has taken many months. There was no date of release for this product until reaching a point of complete satisfaction and trust with the design. After that, the consequent certification program and the success obtained in the ultimate test flights has been the best reward for the professionals involved in this program.

In ULTRAMAGIC we use only the best materials available and trust their assembly only to competent companies in Europe.



## How much does the FuelTek cost? Can it be ordered?

Prices are now available from your dealer. Ultramagic are now accepting advance orders for new Ultramagic cylinders fitted with **FUELTek** instruments.

### MAIN FEATURES

- Full range reading on a clearly visible display
- Backlit under poor light conditions
- Battery check function with low battery warning
- Extremely simple operation
- Up to 24 hour operation with internal battery only
- Auto power-off system
- Optional solar panel for fully autonomous operation\*
- Easy to use emergency power pack
- Can be retrofitted to any Ultramagic cylinder
- Full interchangeability between cylinders of different types
- Double acoustic alarm at low fuel levels
- Multiple battery charger available
- Disconnection alarm
- Consumption monitoring and logging from a computer\*
- Fully designed, produced and assembled in Europe
- Readout easy to remove

\* Under development

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## TECHNICAL CHARACTERISTICS

Measurement Range	0 % to 120 %
Measurement Resolution	1 % (lower 30 %) 2 % (top)
Measurement Accuracy	±3%
Readout dimensions (Height x Width x Depth)	78 x 77 x 60 mm
Readout Weight (battery included)	164 g
Typical current consumption	10 mA
Gauge Output	Analogical
Display type	3-digit backlit LCD
Display size (Height x Width)	12 x 19 mm
Operating Temperature	-10 °C to +45 °C
Storage Temperature	-10 °C to +40 °C
Charging Voltage	9 V to 13 V
Trigger Alarm	20 % (3 seconds) 10 % (continuous)

### Each readout is delivered with:

- Connection Jack Lead
- Special Hi-Voltage Rechargeable battery
- Flight Manual Supplement with operation and maintenance instructions
- Attachment system.
- Battery charger

### FUELTek optional accessories

- Multiple transport case
- Dust Cover
- Multiple battery charger
- Charger for car lighter
- Emergency power pack
- Solar feeder system\*
- Support pod and wiring for Solo / Duo Bottom ends (or any basket)\*
- Monitoring system for PC\*
- Fuel filter for cylinder refill

\*Under development

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**Ultra  
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Balloons

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DEALERSHIP:

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