

## LIQUIP CONTINUITY TESTER

- ◆ **GO/NO GO CONTINUITY CHECK.**
- ◆ **SIMPLE TO OPERATE, AUTOMATIC ON/OFF**
- ◆ **SELF TEST ON START UP.**
- ◆ **ROBUST AND IMPACT RESISTANT.**
- ◆ **COMPACT AND LIGHTWEIGHT, HIGHLY PORTABLE.**
- ◆ **DYNAMIC CHECKING OF BONDING REELS.**
- ◆ **CERTIFIED FOR USE IN HAZARDOUS AREAS**



### Introduction.

It is now widely accepted that systems transferring flammable liquids or powders must be bonded, or electrically connected, in order to permit the safe dissipation of static electrical charges. However, it is equally important that the bonding systems are tested regularly, because deterioration must be detected at an early enough stage to prevent a hazardous situation developing.

The traditional method of carrying out this test uses one of the many resistance or multi function meters. These instruments are normally cumbersome, prone to mechanical damage, and they require skilled technicians to use them correctly. In addition, they do not have the correct operating range to detect the small changes in resistance which can affect a bonding system (a figure of 10 Ohms is generally considered as the absolute maximum which can be permitted). They also do not react quickly enough to carry out the dynamic check which is needed to detect a worn bonding reel bearing or slip ring. Due to the shortcomings of these instruments it is unlikely that the bonding systems will be checked frequently enough or in the correct manner.

However, the Liquip Continuity Tester has been

specifically designed and constructed for this task ONLY, so it does not have to sacrifice performance in the interests of being a multi purpose instrument.

### Description.

The Liquip Continuity Tester is a foolproof Go/No Go checking device and can be used by non skilled personnel, simply connecting the unit to the system to be tested switches the unit on and tests the bonding system. The unit uses a single multi colour light emitting diode (LED) to indicate the condition of the system under test, which makes the results very simple to interpret. The colour of the LED will tell the operator if the system is satisfactory or not. The unit is lightweight, compact, robust, and is highly portable.

The Liquip Continuity Tester incorporates a sealed non rechargeable Lithium battery with an operational life of approximately 5 years (subject to usage patterns). This avoids the need for battery replacement and recalibration.

The device incorporates a current limitation feature and is certified Intrinsically Safe for use in hazardous areas, unlike other devices which are currently in use.

## **Operation.**

### **1. Checking the Unit.**

When the flying lead clip is connected to the probe the LED turns green and the unit self tests. Separating the clip and probe will cause the LED to turn red. The unit is now ready for use.

### **2. Checking the bonding system.**

Connect flying lead clip to the vehicle or framework or a clean unpainted metal point on the chassis (not to the reel or reel mounting bracket). Connect the vehicle bonding clip to the probe and check for the following indications:-

A) Green light. Resistance less than 10 Ohms, system serviceable.

B) Red light. Resistance greater than 10 Ohms, the bonding system is unserviceable and the fault MUST be rectified before further use.

Alternatively, the probe can be touched onto the chassis and the flying lead clip connected to the vehicle bonding clip if this is more convenient.

The condition of the bonding reel slip ring or bearing can be checked as described above by reeling the cable in or out with the Continuity Tester still connected. A defective reel bearing or slip ring will show up as the LED changing colour continuously from red to green and back again.

## **How To Order.**

Contact Aljac Fuelling Components and ask for the following part number:-  
0100400190. Liquip Continuity Tester with flying lead, clip and probe

## **Specification.**

Type: Go/No Go continuity test device with one plug in flying lead and crocodile type connection clip, and one plug in probe.

Case: Impact resistant moulded

Polystyrene. Overall Dimensions: 80 mm by 40 mm by 22 mm (excluding flying lead and probe).

Flying Lead Length: 1.0 metre.

Nett Weight: 170 Grams including flying lead, clip and probe.

Markings: Labelled with manufacturers name, part number and certification details.

Explosion Proof Certification: Eex ia IIB T4, certificate number 00.02502X.

## **Ancillary Items.**

Please contact our Sales Department if you require bonding reels (hand or spring rewind), bonding cable, bonding clips (a wide variety), bonding lugs, NATO specification bonding plugs, bonding clip break away joints, drum bonding clamps.

We are also happy to advise you on the selection and operation of static bonding equipment and systems.