

# ITS

# Intertek Testing Services



## 1. EC TYPE-EXAMINATION CERTIFICATE

### 2. Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3. EC-Type Examination Certificate Number: ITS03ATEX21478

4. Equipment or Protective System: TYPE ULS 001 and 009 LIMIT SWITCH BOX

5. Manufacturer: KINETROL LIMITED

6. Address: Trading Estate, Farnham, Surrey, GU9 9NU

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. The ITS Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report Number:  
ITS Report Ref 03010345, dated August 2003

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 50014:1998, EN 50020:2002 and EN 50284 :1999  
except in respect of those requirements listed at item 18 of the Schedule.

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

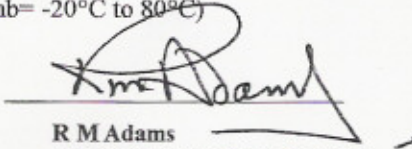
11. This EC-TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment or protective system. Further requirements of this Directive apply to the manufacture and supply of this equipment or protection system.

12. The marking of the equipment or protective system shall include the following:-



II 1D G, T130°C EEx ia IIC T4 ( Tamb= -20°C to 80°C)

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R M Adams  
Deputy Certification Manager  
29 August 2003

This certificate may only be reproduced in its entirety and without any change, schedule included.



# ITS Intertek Testing Services

## 13. Schedule

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21478

15. DESCRIPTION OF EQUIPMENT OR PROTECTIVE SYSTEM.

Type ULS Limit Switch Box consists of an enclosure fitted with either one or two approved inductive sensors Type NJ2-V3-N..., PTB 00 ATEX 2032 X, to form a Type ULS 001 unit or one or two microswitches to form a Type 009 unit. The equipment is to be fitted to valve actuators in the Kinetrol range 03 to 14 to indicate the position of quarter turn valves. The switch box is mounted onto valve actuators by means of two or four screws and a square section shaft. Discrete mount versions may be fitted to other devices by four screws and either a square section or flat sided shaft.

Both internal and external earthing facilities are provided.

### Maximum Input Parameters per sensor or switch

Type ULS 001

$U_i = 16V$   
 $I_i = 25mA$   
 $P_i = 64mW$   
 $C_i = 40nF$   
 $L_i = 50\mu H$

Type ULS 009

$U_i = 28V$   
 $I_i = 93mA$   
 $P_i = 655mW$

16. REPORT NO. ITS REPORT REF 03010345.

17. SPECIAL CONDITIONS FOR SAFE USE  
None

18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS  
Essential Health and Safety Requirements not addressed by Standards listed are covered by the manufacturers Technical Dossier and identified in ITS Report Ref 03010345.

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## 19. DRAWINGS

| Number      | Issue | Date     | Description                       |
|-------------|-------|----------|-----------------------------------|
| 305-000-049 | C     | 29.08.03 | General Assembly 009              |
| 305-000-049 | B     | 29.08.03 | Parts List – USW52-9 (2 Switches) |
| 305-000-049 | A     | 29.08.03 | Parts List – USW52-9-1 (1 Switch) |
| 305-000-047 | B     | 08.08.03 | General Assembly 001              |
| 305-000-047 | F     | 29.08.03 | Parts List – USW52-1 (2 Sensors)  |
| 305-000-047 | A     | 29.08.03 | Parts List – USW52-1-1 (1 Sensor) |
| SK 3290     | A     | 14.03.03 | Cover                             |
| SK 3291     | A     | 19.03.03 | Base                              |
| 305-072     | B     | 08.08.03 | Label 001                         |
| 305-073     | B     | 08.08.03 | Label 009                         |
| KTR 119     | -     | 07.08.03 | Technical file                    |
| KF-468      | -     | 27.08.03 | Installation Instructions 001     |
| KF-469      | -     | 27.08.03 | Installation Instructions 009     |

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