



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: **ITS12ATEX17596X**

4. Equipment or Protective System: **Model 4060/6400 Wall Mount (Analyser)**

5. Manufacturer: **TELEDYNE ANALYTICAL INSTRUMENTS  
A BUSINESS UNIT OF TELEDYNE INSTRUMENTS, INC**

6. Address: **16830 Chestnut Street, City of Industry, California 91748. USA**

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. Intertek 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 Intertek Report G100718560A1 dated September 2012

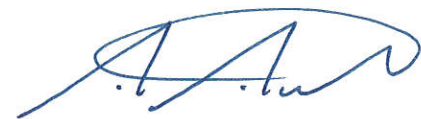
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2009 & EN 60079-2:2007 except in respect of those requirements referred to at item 18 of the Schedule.

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 and construction of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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

 II 2 G Ex px IIC T3 Gb



**A Austin  
Certification Officer  
27 September 2012**

**Intertek Testing & Certification Limited**  
**Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB**  
**Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977**  
<http://www.intertek.com>  
**Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA**

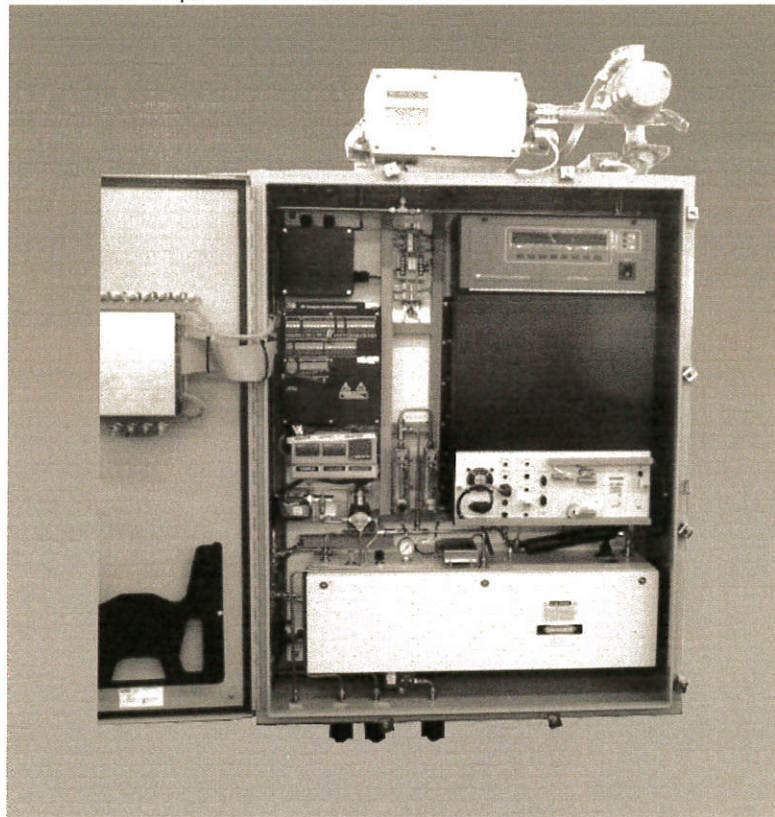
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13. SCHEDULE
14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX17596X
15. Description of Equipment or Protective System

The Model 4060/6400 Wall Mount Analysis System is designed for measuring the H<sub>2</sub>S and COS concentration in a fuel gas. It consists of a Model 6400 UV Fluorescence SO<sub>2</sub> analyser with a Thermal converter unit, a model FID –GC analyser.

These units are fitted inside a purged enclosure which is a metallic housing with the overall dimensions of 48" (height) x 13.73" (depth) x 36.0" (width). The front of enclosure door has 2 IEC Ex certified viewing windows. Access to the enclosure is made through the front of the enclosure and a tool is required to gain access.

The system utilizes a suitably certified Purge Control Unit manufactured by Pepperl & Fuchs (certificate number DEMKO 07 ATEX 0705753X). The purge air enters the enclosure via a manifold system. The unit also requires a secondary purge system to be fitted due to the high working temperature of the internal quartz tube –see conditions of certification.



Model 4060/6400 (front view)

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13. SCHEDULE

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The enclosure has the following purge parameters.

Minimum Purge Flow Rate	340SLPM N2 or Air
Minimum Purge Duration	10 minutes (15 mins N2)
Enclosure min. overpressure	3.6 mbar
Enclosure max. overpressure	15 mbar
Supply min overpressure	4 bar
Supply max overpressure	5.5 bar
Maximum leakage rate	40 SLPM @ 15 mbar
Category of internal release	Limited
Maximum release flow rate	H2S + CO2 1.5SLPM @ 2 bar Max

16. Report Number:

Intertek Report G100718560A1 dated September 2012

17. CONDITIONS OF CERTIFICATION:

(a). Special Conditions for safe use

- a) The end user must supply a flow restriction device that limits the flow to the containment system as follows
1. H2C + CO2 to 1.5 SLPM at 2 BarG max
- b) Temperatures at the cable entry point could exceed 70°C and 80°C at the branching point. Selection of cable must be appropriate for the ambient temperature range.
- c). Refer to drawing number D89149 (sheet 2 of 6) for correct replacement of cable entries.
- d) The manufacturers operating and maintenance instructions shall always be followed.
- e) Internal battery to be replaced by the manufacturer only.
- f) A secondary purge unit shall be supplied so that on loss of pressurisation an overpressure is maintained internally for a period of not less than 60 minutes.
- g) The flow on the Purge Control Unit shall indicate 340SLPM (12CFM)
- h) All cable entries and blanking devices must maintain a minimum of IP40.

(b). Conditions For Use (Routine Tests)

- Functional test of safety devices shall be verified and recorded.
- Leakage test shall be carried out in accordance with EN 60079-2:2007 clause 16.2 and recorded.
- The containment system shall be tested in accordance with EN 60079-2:2007 clause 16.7 and results recorded.
- Only items listed in the 'ATEX' column of drawing number D-89149 Rev 3 Sheet 2 may be utilised with this product.

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- 13. SCHEDULE
- 14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS12ATEX17596X
- 18. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report G100718560A1 dated September 2012.

- 19. Drawings and Documents

Number	Title	Issue	Date
D-89149	Outline Diagram Analyser H2S + COS MDL 4060/6400 Wall Mount (sheets 1 to 6)	3	09/14/12
C-89547	Fabrication Detail, ATEX Label MDL 4060/6400E Wall Mount	0	06/28/12
B-89661	Tag Detail Warning Label Second Purge	0	08/01/12
D-89546	Outline Diagram General Arrangement Model 6400E Wall Mount (sheet 2 of 2 only)	0	06/29/12
C-82929	Piping Diagram H2S/TS Model 4060	1	12/04/09
B-86356	Tag Detail Warning Label Asphyxiation Risk	0	11/04/11
B-86355	Tag Detail Warning Label Pressurized Enclosure	0	11/04/11
B-64496	Toxic/Flammable Liquids/Gases Enclosure Danger Tag	2	6-15-95

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