



- (1) **Declaration of Conformity.**
- (2) Expo Technologies Document Number EXPO 06ATEX1070X.
- (3) This declaration is issued for the electrical apparatus:

**Air Instruments Analyser equipment mounted in a Stahlin enclosure
part no. 2073.**

- (4) Manufacturers:

Expo Technologies Ltd
Surrey
KT7 0RH
UK

Air Instruments
15404 Valley Blvd
California
91746

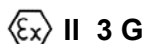
- (5) This electrical apparatus and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.
- (6) This declaration and schedule confirms compliance of each unit with the following standards:

EN 50 014:1998 +A1.A2
IEC 60079-2:2004

General requirements
Pressurized enclosures "p"

- (7) This apparatus fulfils all the requirements for Group II Category 3 equipment in accordance with European Directive 94/9/EC.
- (8) The design is documented in Expo-Technologies Technical Construction File number 36862
- (9) The apparatus marking:

EEx pZ IIC T4



For and on behalf of Expo Technologies Ltd.
Thames Ditton, 17th September 2006.

Mark Day
Certification Engineer

Annex to Declaration of Conformity EXPO 06ATEX1070X.

10 Description:

Air Instruments analyser equipment mounted within an EEx p enclosure, 750x500x250mm constructed in Fibreglass.

Ambient temperature range $-20\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$.

11 Pressurization data:

Air supply pressure	8 bar max
Free Internal Volume	94litres
Minimum Purge Flow	225 litres/minute
Minimum Purge Time	3minutes
Min. Overpressure	0.5 mbar
Maximum over-pressure	12 mbar
Maximum leakage rate	30 litres/minute

12 Special conditions of safe use:

The internal heat load shall not exceed 113w.

Power and signal isolation shall be in accordance with any local codes of practice and the relevant standards and therefore shall be the responsibility of the user.

13 Installation Instructions:

The cable entry devices into the EEx p enclosure shall be in type of protection suitable for the conditions of use and correctly installed.

For external earthing or bonding connection a cable lug shall be used so that the conductor is secured against loosening or twisting and that contact pressure is permanently secured.

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Test Documentation

Description	Doc. Ref	Rev.
GA Wiring Diagram	TM5011-0	1

15 Certificates:

a) Z Purge EXPO06ATEX1061X

16 System & Enclosure types & serial numbers:

Press. Enclosure Type:	STAHLIN	Serial No.	2073
Part Number:		Marking:	
Component certificate:		Issuing body:	
Control System:	Z PURGE	Serial No.	M39639
Type:	1ZLC/BP/IS	Marking:	EEx pz II T6
Relief Valve:	RLV25	Serial No.	2005/R39639
Component certificate:	EXPO06ATEX1061X	Issuing body:	EXPO