

# 1 EC-TYPE EXAMINATION CERTIFICATE



2 Equipment or Protective systems intended for use in Potentially  
Explosive Atmospheres - Directive 94/9/EC

3 EC-Type Examination Certificate No: FM15ATEX0044X

4 Equipment or protective system: AC10LP-IS, AC15LP-IS, AC20LP-IS, ACLP-IS, ACLP-DW-IS,  
(Type Reference and Name) AC40LP-IS, AC30-60-IS, AC30-60F-IS, AC60LP-IS. Aircraft  
Weighing Scale

5 Name of Applicant: Intercomp Company

6 Address of Applicant: 3839 County Road 116  
Medina MN, 55340  
United States

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

8 FM Approvals Ltd, notified body number 1725 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment 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:

3052103 dated 25<sup>th</sup> October 2015

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN 60079-0: 2012 +A11:2013 and EN 60079-11: 2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11 This EC-Type Examination certificate relates only to the design, examination and tests 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:



II 2 G Ex ib IIB T3 Gb

**Mick Gower**  
Certification Manager, FM Approvals Ltd.

Issue date: 28<sup>th</sup> October 2015

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals Ltd. 1 Windsor Dials, Windsor, Berkshire, UK. SL4 1RS  
T: +44 (0) 1753 750 000 F: +44 (0) 1753 868 700 E-mail: [atex@fmaprovals.com](mailto:atex@fmaprovals.com) [www.fmaprovals.com](http://www.fmaprovals.com)

# SCHEDULE

to EC-Type Examination Certificate No. FM15ATEX0044X

## 13 Description of Equipment or Protective System:

The AC10LP-IS, AC15LP-IS, AC20LP-IS, ACLP-IS, ACLP-DW-IS, AC40LP-IS, AC30-60-IS, AC30-60F-IS and AC60LP-IS aircraft weighing scale contains an indicator assembly, protective interface board, battery pack and four to six resistive type load cells. The weighing scales are standalone devices powered by either four 1.5 V Duracell MN1500 Size: AA (LR6) or MN1400 Size: C (LR14) Alkaline-Manganese Dioxide Battery (Zn/MnO<sub>2</sub>) or powered from an MTL7758+ FM Approved intrinsic safety barrier. The AC30-60-IS, AC30-60F-IS and AC60LP-IS models include an angle sensor. The AC30-60-IS and AC30-60F-IS are the only models that have a removable battery pack. The ambient operating temperature range of the aircraft weighing scales is -20°C to 40°C.

## 14 Specific Conditions of Use:

1. Only Duracell Type MN1400, Size: C (LR14), 1.5 V (Nom) Alkaline-Manganese Dioxide Battery (Zn/MnO<sub>2</sub>) may be used in the AC30-60-IS and AC30-60F-IS.
2. Only Duracell Type MN1500, Size: AA (LR6), 1.5 V (Nom) Alkaline-Manganese Dioxide Battery (Zn/MnO<sub>2</sub>) may be used in the AC10LP-IS, AC15LP-IS, AC20LP-IS, ACLP-IS, ACLP-DW-IS, AC40LP-IS and AC60LP-IS.
3. The enclosure contains a window constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned with a damp cloth.
4. The scale will not pass a 500 VRMS insulation test between the circuit and circuit frame. This shall be taken into account during installation for example by use of a bonding conductor to the barrier ground.

## 15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

## 16 Test and Assessment Procedure and Conditions:

This EC-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's ATEX Certification Scheme.

## 17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

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# SCHEDULE



Member of the FM Global Group

to EC-Type Examination Certificate No. FM15ATEX0044X

## 18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
28 <sup>th</sup> October 2015	Original Issue.



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FM Approvals Ltd. 1 Windsor Dials, Windsor, Berkshire, UK. SL4 1RS  
T: +44 (0) 1753 750 000 F: +44 (0) 1753 868 700 E-mail: [atex@fmapprovals.com](mailto:atex@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

# Blueprint Report

Intercomp (1000008147)

Class No 3610

Original Project I.D. 3052103

Certificate I.D. FM15ATEX0044X

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>	<u>Electronic Drawing</u>
000317-B_BOM	A	PCB ASSY CAS-CAM TILT FREDERIC	3052103	Yes (xml)
000425_BOM	B	BATTERY CAP ASSEMBLY	3052103	Yes (xml)
000425	B	BATTERY CAP ASSEMBLY	3052103	Yes (pdf)
0200120_BOM	B	AC60-LP-IS INDICATOR ASSEMBLY	3052103	Yes (xml)
0200139_BOM	A	HARNESS ASSY_POWER-COM_AC60-LP-IS	3052103	Yes (xml)
0200150_BOM	B	ACLP-IS INDICATOR ASSEMBLY	3052103	Yes (xml)
0200151_BOM	A	AC-LP-DW-IS SCALE ASSEMBLY 30K	3052103	Yes (xml)
0200151	A	AC-LP-DW-IS SCALE ASSEMBLY 30K	3052103	Yes (pdf)
0200154_BOM	A	ACLP-IS 15X15 BASE ASSEMBLY	3052103	Yes (xml)
0200154	A	ACLP-IS 15X15 BASE ASSEMBLY	3052103	Yes (pdf)
0200155_BOM	A	ACLP-IS PWR-COM HARNESS	3052103	Yes (xml)
0200156_BOM	A	ACLP-IS SCALE ASSEMBLY 30K	3052103	Yes (xml)
0200156	A	ACLP-IS SCALE ASSEMBLY 30K	3052103	Yes (pdf)
0200169_BOM	B	AC30-60-IS INDICATOR ASSEMBLY XBEE	3052103	Yes (xml)
0200170_BOM	A	AC30-60-IS BASIC ASSEMBLY 60K STD	3052103	Yes (xml)
0200170	A	AC30-60-IS BASIC ASSEMBLY 60K STD	3052103	Yes (pdf)
0200171_BOM	D	AC30-60-IS BATTERY HOLDER SUB-ASSEMBLY	3052103	Yes (xml)
0200171	D	AC30-60-IS BATTERY HOLDER ASSEMBLY	3052103	Yes (pdf)
0200172_BOM	A	AC30-60-IS COM. HARNESS	3052103	Yes (xml)
0200173_BOM	A	AC30-60-IS POWER CABLE HARNESS	3052103	Yes (xml)
0200180_BOM	D	AC30-60F-IS BATTERY HOLDER ASSEMBLY	3052103	Yes (xml)
0200180	D	AC30-60F-IS BATTERY HOLDER ASSEMBLY	3052103	Yes (pdf)
0200181_BOM	B	AC30-60F-IS INDICATOR ASSEMBLY XBEE	3052103	Yes (xml)
140067_BOM	B	AC10LP-DW-IS LOW PROFILE RFX PLATFORM SCALE (10K)	3052103	Yes (xml)
140069_BOM	C	AC30LP-DW LOW PRO PLTFM SCALE	3052103	Yes (xml)
140296_BOM	D	AC10LP 15X15 10K LOW PRO SCALE	3052103	Yes (xml)
144008_BOM	B	AC60-LP-IS SCALE	3052103	Yes (xml)
144008	A	AC60-LP IS SCALE	3052103	Yes (pdf)
144019_BOM	B	AC30-LP-DW-IS PLATFORM SCALE	3052103	Yes (xml)
144019	A	AC30-LP-DW-IS PLATFORM SCALE	3052103	Yes (pdf)
144020_BOM	B	AC15-LP-IS PLATFORM SCALE (10K)	3052103	Yes (xml)
144020	A	AC15-LP-IS PLATFORM SCALE (10K)	3052103	Yes (pdf)
144021_BOM	B	AC40-LP-IS PLATFORM SCALE (30K)	3052103	Yes (xml)
144021	A	AC40-LP-IS PLATFORM SCALE (30K)	3052103	Yes (pdf)
144036_BOM	B	AC10-LP DW LOW PROFILE RFX PLATFORM SCALE (10K)	3052103	Yes (xml)
145004_BOM	A	AC30-60F-IS SCALE ASSEMBLY GRAY	3052103	Yes (xml)
145004	A	AC30-60F-IS SCALE ASSEMBLY GRAY	3052103	Yes (pdf)
145010_BOM	A	AC30-60-IS PLATFORM SCALE	3052103	Yes (xml)
145010	A	AC30-60-IS PLATFORM SCALE	3052103	Yes (pdf)
2505546	C	CE/EX label for ACXX-LP-IS, AC30-60-IS, AC30-60F-IS	3052103	Yes (pdf)
2505547	A	BATTERY ORIENTATION LABEL FOR AC1-25 / AC15-LP IS	3052103	Yes (pdf)
2505548	D	WARNING LABEL FOR AC1-25 IS / AC15-LP IS	3052103	Yes (pdf)
2505556	A	PRODUCT MODEL AND SERIAL NUMBER LABEL	3052103	Yes (pdf)
2505557	D	WARNING LABEL FOR AC30-60-IS / AC30-60F-IS	3052103	Yes (pdf)
270065_PCB	B	TILT PRINTED CIRCUIT BOARD	3052103	Yes (pdf)
270065	B	TILT_SCHEMATIC	3052103	Yes (pdf)
270088_PCB	3	AD REV E PRINTED CIRCUIT BOARD	3052103	Yes (pdf)
2703019_PCB	1C	PROTECTIVE INTERFACE Rev A PRINTED CIRCUIT BOARD	3052103	Yes (pdf)
2703019	A	PROTECTIVE INTERFACE REV A_SCHEMATIC	3052103	Yes (pdf)
501298	B	AC125/LP600/CW250 KEYPAD PROTECTOR	3052103	Yes (pdf)
5201597_BOM	C	AC60LP PLATFORM	3052103	Yes (xml)
5201597	C	AC60LP PLATFORM	3052103	Yes (pdf)
5201604	D	AC3060 NEX GEN BASE	3052103	Yes (pdf)
5201605_BOM	C	AC60-LP LOW PRO ASSEMBLY	3052103	Yes (xml)
5201605	C	AC3060 NEX GEN SCALE ASSEMBLY	3052103	Yes (pdf)
5201710	B	AC3060 KEYPAD SUPPORT	3052103	Yes (pdf)
5201712	B	AC3060 KEYPAD PROTECTOR	3052103	Yes (pdf)
5201714	B	AC3060 KEYPAD GASKET	3052103	Yes (pdf)
5201716	B	AC3060 BATTERY COVER	3052103	Yes (pdf)
5202015_BOM	A	AC30-60-IS PLATFORM	3052103	Yes (xml)
5202016_BOM	A	AC30-60-IS BASE	3052103	Yes (xml)
5202077	A	AC30-60F-IS-BASIC ASSEMBLY 60K GRAY	3052103	Yes (pdf)
5202146	A	AC30-IS BATTERY PROTECTIVE TUBE	3052103	Yes (pdf)
550230_BOM	A	AC3060 ANGLE SENSOR CABLE	3052103	Yes (xml)
603215	A	TESTED LP STEEL LOADCELL	3052103	Yes (pdf)
6033232	B	LOADCELL DOUBLE END SHEAR 15K	3052103	Yes (pdf)
7005070	C	AC60LP-IS USER MANUAL	3052103	Yes (pdf)
7005073	B	AC10LP-IS, AC15LP-IS PLATFORM SCALE OPERATION/CALIBRATION MANUAL	3052103	Yes (pdf)
7005074	B	AC20LP-IS, AC40LP-IS, ACLP-IS, ACLP-DW-IS PLATFORM SCALE OPERATION/CALIBRATION MANUAL	3052103	Yes (pdf)
7005085	C	AC30-60-IS & AC30-60F-IS PLATFORM SCALES OPERATIONS MANUAL	3052103	Yes (pdf)
750213	B	AC3060 COM HARNESS	3052103	Yes (pdf)
750517	B	AD REV E CONTROL PANEL HARNESS	3052103	Yes (pdf)

750687	B	AC3060 ANGLE HARNESS	3052103	Yes (pdf)
7510278_BOM	D	PROTECTIVE INTERFACE	3052103	Yes (pdf)
7510279	A	AC60-LP-IS POWER/COM HARNESS	3052103	Yes (pdf)
7510287	B	AC30-60 SYSTEM BLOCK DIAGRAM	3052103	Yes (pdf)
7510292	B	AC10/15-LP-IS SYSTEM BLOCK DIAGRAM	3052103	Yes (pdf)
7510293	B	AC40-LP-IS SYSTEM BLOCK DIAGRAM	3052103	Yes (pdf)
7510294	B	AC30-60-IS SYSTEM BLOCK DIAGRAM	3052103	Yes (pdf)
7510326	B	AC30-60-F-IS SYSTEM BLOCK DIAGRAM	3052103	Yes (pdf)
7510374_BOM	C	AC6CH-IS BOARD	3052103	Yes (excel8book)
7510375	B	ACXX-LP-IS & AC30-60-IS SYSTEM INSTALLATION	3052103	Yes (pdf)
7510378	A	AD REV E, IS VERSION_SCHEMATIC	3052103	Yes (pdf)
7510383	B	AC6CH-IS CONFORMAL COAT	3052103	Yes (pdf)