



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:  issue No.:  Certificate history:

Status:

Date of Issue:  Page 1 of 3

Applicant: **DUON System Co. Ltd.**  
289-29,  
Gondan-ro,  
Gunpo-si, Gyeonggi-do,  
15809  
Korea, Republic of

Equipment: **APT3500(IS) Smart Pressure Transmitter**  
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +70°C)**  
**Ex ia IIC T5 Ga (-40°C ≤ Ta ≤ +40°C)**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair *PP O'BREANLEY*

Position: Technical Manager

Signature: *[Signature]*  
(for printed version)

Date: *5/2/17*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited  
Rockhead Business Park  
Staden Lane  
Buxton, Derbyshire, SK17 9RZ  
United Kingdom





# IECEX Certificate of Conformity

Certificate No.: IECEX BAS 17.0001X

Date of Issue: 2017-02-06

Issue No.: 0

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Manufacturer: **DUON System Co. Ltd.**  
Gondan-ro,  
Gunpo-si, Gyeonggi-do,  
15809  
Korea, Republic of

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition: 6.0

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

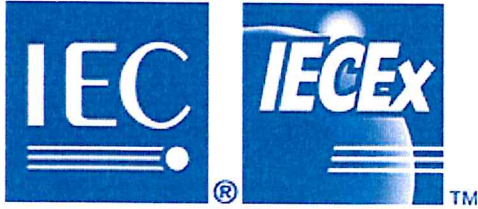
*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

##### Test Report:

[GB/BAS/ExTR17.0001/00](#)

##### Quality Assessment Report:

[NL/DEK/QAR12.0082/03](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The APT3500 Smart Pressure Transmitter is a microprocessor based high performance transmitter capable of being configured to measure a wide range of Differential; Gauge; or Absolute pressure.

The equipment comprises of an aluminium alloy housing containing a stack of five PCBs; an LCD viewable through a tempered glass window; a pressure sensing element (capacitance or piezo electric sensor); and the required process connections. The transmitter measures approximately 210mm x 90mm x 115mm and weighs approximately 3.5kg.

Electrical connections are made via screw terminals in the terminal chamber located on the opposite face to the display.

The user terminal parameters are:

$U_i = 30V$

$I_i = 130mA$

$P_i = 0.75W$

$C_i = 40nF$

$L_i = 104\mu H$

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The insulation between the intrinsically safe circuits and the frame of the equipment is not capable of withstanding a 500Vrms dielectric strength test as defined in clause 6.3.13 of IEC/EN 60079-11:2011/12. This shall be taken into account during installation.

2. The metal enclosure contains light alloys; the equipment must be protected from impact when installed.