



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX FMG 19.0037X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-02-27

Applicant: **Magnetrol International Inc.**
705 Enterprise Street
Aurora, IL 60504
United States of America

Equipment: **Model 700 Eclipse, Commercial Guided Wave Radar**

Optional accessory:

Type of Protection: **ia, nA**

Marking: Ex ia IIC T4 Ga
Ta = -40°C to +70°C

Ex nA IIC T4 Gc
Ta = -15°C to +70°C

Approved for issue on behalf of the IECEx
Certification Body:

J. E. Marquedant

Position:

VP, Manager - Electrical Systems

Signature:
(for printed version)

Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

FM Approvals LLC
1151 Boston-Providence Turnpike
Norwood, MA 02062
United States of America





IECEX Certificate of Conformity

Certificate No.: **IECEX FMG 19.0037X**

Page 2 of 3

Date of issue: 2020-02-27

Issue No: 0

Manufacturer: **Magnetrol International Inc.**
705 Enterprise St.
Aurora IL 60504
United States of America

Additional manufacturing locations: **Magnertol B. V.**
Heikensstraat 6
9240 Zele
Belgium

Orion Instruments
6646 Complex Drive
Baton Rouge, LA 70809
United States of America

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 equipment 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

IEC 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

This Certificate **does not** indicate compliance with 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:

[US/FMG/ExTR19.0034/00](#)

Quality Assessment Reports:

[CA/CSA/QAR06.0004/05](#)

[NL/DEK/QAR11.0031/05](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx FMG 19.0037X**

Page 3 of 3

Date of issue: 2020-02-27

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Eclipse Model 700 Guided Wave Radar

700-51ab-c5d / 7ef-ghjk-lmn-pq-r

a = Safety Level; 1 or 2

b = Accessories / Mounting; 0 or A

c = Classification = A or C

d = Conduit; 0 or 1

e = Measurement; B or D

f = Probe configuration / Style; 1, F, P or T

g = Process Connection Size; 1, 2, 3, 4, 5, 6, B, C, D, E or F

h = Process Connection Type; 1, 2, 3, 4, 5, 6, 7, 8, A, B, C, D, E, F, G, H, J, K, L, M or N

j = Construction Codes; 0, K, L, M or N

k = Flange Option; 0, 1, 2 or 3

l = Material of Construction; A, B, C, F, P, R, S or T

m = Spacer Material; 0, 1 or 5

n = O-Ring / Seal Material; 0, 1, 2, 3, 4, 5, 6, 7, 8, A or N

p = Probe size/Type/Flushing; 0, 1, 2 or 3

q = Special option; 0 or 1

r = Probe Length (3 digits max) in:

- Inches (Measurement System c = B, Configuration / Style d = F, P or T).
- Feet (Measurement System c = B, Configuration / Style d = 1).
- Centimeters (Measurement System c = D, Configuration / Style d = F, P or T).
- Meters (Measurement System c = D, Configuration / Style d = 1).

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The enclosure contains aluminum and is considered to present a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact or friction.
2. The risk of electrostatic discharge shall be minimized at installation, following the direction given in the instruction.
3. To maintain the T4 temperature code care shall be taken to ensure the enclosure temperature does not exceed 70°C.