

CERTIFICATE OF CONFORMITY

1. **HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
2. **Certificate No:** FM16CA0030X
3. **Equipment:** Model MGT-60000 and ILT-6000 MAgnetostrictive Level Transmitter
(Type Reference and Name)
4. **Name of Listing Company:** Jogler LLC
5. **Address of Listing Company:** 6646 Complex Dr
Baton Rouge LA 70809
USA
6. The examination and test results are recorded in confidential report number:

3055138 dated 11th July 2016
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

CSA-C22.2 No. 25:R2014, CAN/CSA C22.2 No. 213-M1987:R2013, CAN C22.2 No. 157-92:R2012,
CSA-C22.2 No. 61010-1:2004, CSA-C22.2 No. 0.4:R2013, CSA-C22.2 No. 0.5:R2013,
CSA-C22.2 No. 30:R2012, CSA-C22.2 No. 94:R2011
8. 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.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

Certificate issued by:



J.E. Marquedant
Manager, Electrical Systems

11 July 2016

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



Canadian Certificate Of Conformity No: FM16CA0030X

10. Equipment Ratings:

Intrinsically Safe for Class I, II, III Division 1, Groups A, B, C, D, E, F, and G hazardous locations in accordance with JLT System Drawing

Nonincendive for Class I, Division 2, Groups A, B, C, and D hazardous locations

Explosion-proof for Class I, Division 1, Groups A, B, C, and D hazardous locations

Dust ignition-proof for Class II, III, Division 1, Groups E, F, and G hazardous locations

Ingress protection of Type 4X and a Temperature code of T6 for Explosion-proof and Dust ignition-proof; T4 for Intrinsically Safe and Nonincendive with an Ambient Temperature range of -40 °C to +70 °C

11. The marking of the equipment shall include:

Class I, Division 1, Groups A,B,C,D; T6 Ta = -40°C to +70°C; Type 4X

Class II,III, Division 1, Groups E,F,G; T6 Ta = -40°C to +70°C; Type 4X

Intrinsically Safe for Class I, II III, Division 1, Groups A,B,C,D,E,F,G; T4 Ta = -40°C to +70°C; Entity – JLT System Drawing; Type 4X

Class I, Division 2, Groups A,B,C,D; T4 Ta = -40°C to +70°C; Type 4X

12. Description of Equipment:

General - The ILT -6000 and MGT 6000 are designed for direct tank or vessel insertion. It contains a low profile waveguide that is inserted into a welded thermowell and external float assembly. The thermowell isolates the waveguide from the process environment and protects it from excessive temperature and vibration effects.

Construction - The MGT -6000 contains three elements: the transmitter head, sensor pickup and waveguide probe. The ILT-6000 contains five elements: transmitter head, sensor pickup, waveguide probe, external thermowell and float.

Ratings - The MGT/ILT 6000 Magnetostrictive Level Transmitters operate at +14-30 Vdc. The transmitters are rated for use in an ambient temperature range of -40°C to +70°C. The Entity parameters are required for the Intrinsically safe version.

Model MGT-6000/a/b/c/d/e/f Magnetostrictive Level Transmitter

Vmax = 28.6Vdc, Imax = 140mA, Pmax = 1W, Li = 250uH, Ci = 4.4nF

a = Enclosure Type: S (single alum), D (dual alum), SD (dual SS)

b = Mounting Option: BL, BR, TL, TR

c = Probe Type: S1, S2, HT90, LT, LT90

d = Options: VI, SW, D (Hart only)

e = Approvals: (code corresponds to requested approval)

f = Measuring Length in inches or mm (max: 420 in or 10668 mm)

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SCHEDULE



Canadian Certificate Of Conformity No: FM16CA0030X

Model ILT-6000/a/b/c/d/e/f/g Magnetostrictive Level Transmitter

Vmax = 28.6Vdc, Imax = 140mA, Pmax = 1W, Li = 250uH, Ci = 4.4nF

a = Enclosure Type: S (single alum), D (dual alum), SD (dual SS)
b = Mounting Option: S, LT
c = Probe Type: S (3/8 x .065 316 SS)
d = Temperature Options: S(170°F), T1(250°F), T2(400°F), T3(800°F)
e = Options: D (Hart only)
f = Approvals: (code correspondes to requested approval)
g = Insertion Length in inches or mm (max: 420 in or 10668 mm)

13. Specific Conditions of Use:

Windowed covers can not be used in ethyl acetate and acetic acid atmospheres.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
11 th July 2016	Original Issue.

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