



# Certificate of Compliance

**Certificate:** 1099428 (LR 57020)

**Master Contract:** 152235

**Project:** 2534492

**Date Issued:** June 14, 2012

**Issued to:** Magnetrol International Inc.

5300 Belmont Rd  
Downers Grove, IL 60515  
USA

Attention: Julianne Lambiasi

*The products listed below are eligible to bear the CSA Mark shown*



*Nicholas Cameron*

**Issued by:** Nicholas Cameron

## **PRODUCTS**

**CLASS 2258 02** - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

**CLASS 2258 03** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non -  
Incendive Systems - For Hazardous Locations

**CLASS 2258 04** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For  
Hazardous Locations

**CLASS 2258 02** - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

**Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups E, F and G; Class III:**

ECLIPSE Level System, consisting of Transmitter, Model 705-5abc-def w/integral probe, or remote probe, Model 7gh-ijkl; supply 28.6V dc, 4-20mA; Max Ambient 71 Deg C; Temp. Code T4; Encl. Type 4X. MWP rated up to a maximum of 6250 PSI, Single Seal where "g" can be M & E and "h" can be A, B, C, D, E, F, G, J, K, L, M, N, P, R, S, T, 1 & 7 and "i" can be A, B, C, F, J, 1 & 4 when "h" = F; Process Temperature rated up to a Maximum of 427°C.

**CLASS 2258 03** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

**Class I, Division 1, Groups B, C, and D; Class II, Division 1, Groups E, F and G; Class III, Division 1:**

ECLIPSE Level System, consisting of Transmitter, Model 705-5abc-31f or 32f (integral probe) or Transmitter, Model 705-5abc-41f or 42f (remote probe) (explosion-proof/dust ignition proof for Class I, Groups B, C and



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D; Class II, Groups E, F, and G, Class III), supply 28.6V dc, 4-20mA; providing intrinsically safe circuits for integral probe or remote probe, Model *7gh-ijkl*; Temp. Code T4; Max Ambient 71 Deg C; Encl. Type 4X. MWP rated up to a maximum of 6250 PSI, Single Seal where “g” can be M & E and “h” can be A, B, C, D, E, F, G, J, K, L, M, N, P, R, S, T, 1 & 7 and “i” can be A, B, C, F, J, 1 & 4 when “h” = F; Process Temperature rated up to a Maximum of 427°C.

**CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations**

**Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III, Division 1:**

ECLIPSE Level System, consisting of Transmitter, Model *705-51bc-1ef* w/integral probe, or Transmitter, Model *705-51bc-2ef* w/remote probe, Model *7gh-ijkl*; supply 28.6V dc, 4-20mA; intrinsically safe, with Entity parameters  $V_{max} = 28.6V$ ,  $I_{max} = 140mA$ ,  $P_{max} = 1W$ ;  $C_i = 5.5 nF$ ,  $L_i = 9.4 uH$ , when connected per Magnetrol Inst. Dwg. 99-5055; Temp. Code T4; Max ambient 71 Deg.C; Encl. Type 4X. MWP rated up to a maximum of 6250 PSI, Single Seal where “g” can be M & E and “h” can be A, B, C, D, E, F, G, J, K, L, M, N, P, R, S, T, 1 & 7 and “i” can be A, B, C, F, J, 1 & 4 when “h” = F; Process Temperature rated up to a Maximum of 427°C.

ECLIPSE Level System, consisting of Transmitter, Model *705-52bc-1ef* or *705-53bc-1ef* w/integral probe, or Transmitter, Model *705-52bc-2ef* or *705-53bc-2ef* w/remote probe, Model *7gh-ijkl*; supply 28.6V dc, 4-20mA; intrinsically safe, with Fieldbus / FISCO Entity parameters  $V_{max} = 17.5V$ ,  $I_{max} = 500mA$ ,  $P_{max} = 5.5 W$ ;  $C_i < 5nF$ ,  $L_i < 10 uH$ , when connected per Magnetrol Inst. Dwg. 99-5055; Temp. Code T4; Max ambient 71 Deg.C; Encl. Type 4X. MWP rated up to a maximum of 6250 PSI, Single Seal where “g” can be M & E and “h” can be A, B, C, D, E, F, G, J, K, L, M, N, P, R, S, T, 1 & 7 and “i” can be A, B, C, F, J, 1 & 4 when “h” = F; Process Temperature rated up to a Maximum of 427°C.

ECLIPSE Level System, consisting of Transmitter, Model *705-51bc-134* (integral probe) or Transmitter, Model *705-51bc-234* (remote probe) w/remote probe, Model *7gh-ijkl*; supply 28.6V dc, 4-20mA; intrinsically safe with Entity parameters  $V_{max} = 28.6V$ ,  $I_{max} = 140mA$ ,  $P_{max} = 1W$ ;  $C_i = 5.5 nF$ ,  $L_i = 9.4 uH$ ; when connected per Magnetrol Inst. Dwg. 99-5055; Temp. Code T4; Max ambient 71 Deg.C; Encl. Type 4X; IP 67. MWP rated up to a maximum of 6250 PSI, Single Seal where “g” can be M & E and “h” can be A, B, C, D, E, F, G, J, K, L, M, N, P, R, S, T, 1 & 7 and “i” can be A, B, C, F, J, 1 & 4 when “h” = F; Process Temperature rated up to a Maximum of 427°C.

ECLIPSE Level System, consisting of Transmitter, Model *705-52bc-134* or *705-53bc-134* (integral probe) or Transmitter, Model *705-52bc-234* or *705-53bc-234* (remote probe) w/remote probe, Model *7gh-ijkl*; supply 28.6V dc, 4-20mA; intrinsically safe with Fieldbus / FISCO Entity parameters  $V_{max} = 17.5V$ ,  $I_{max} = 500mA$ ,  $P_{max} = 5.5W$ ;  $C_i < 5nF$ ,  $L_i < 10 uH$ ; when connected per Magnetrol Inst. Dwg. 99-5055; Temp. Code T4; Max ambient 71 Deg.C; Encl. Type 4X; IP 67. MWP rated up to a maximum of 6250 PSI, Single Seal where “g” can be M & E and “h” can be A, B, C, D, E, F, G, J, K, L, M, N, P, R, S, T, 1 & 7 and “i” can be A, B, C, F, J, 1 & 4 when “h” = F; Process Temperature rated up to a Maximum of 427°C.

Notes:



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The MWP and Temperature are dependant on the model configuration. Specific MWP and Temperature information are permanently marked on the nameplate when configuration details are known.

### **APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 0-10 - General Requirements – Canadian Electrical Code, Part II.

C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations.

C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations.

CAN/CSA-C22.2 No. 94-M91 - Special Purpose Enclosures.

C22.2 No. 142-M1987 - Process Control Equipment.

CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations.

C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.

CAN/CSA-C22.2 No. 60529: 05 - Degrees of protection provided by enclosures (IP Code)

ANSI/ISA 12.27.01-2011 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids.