

CERTIFICATE OF CONFORMITY

1. **ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM18NUS0014
3. **Equipment:** CGR Series Centurion Guided Radar
(Type Reference and Name) Level Measurement
4. **Name of Listing Company:** Hawk Measurement Systems Pty Ltd
5. **Address of Listing Company:** 15-17 Maurice Ct
Nunawading Victoria 3131,
Australia
6. The examination and test results are recorded in confidential report number:
3057129 dated 21st November 2018
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
FM Class 3810: 2018, ANSI/ISA 61010-1: 2012, ANSI/NEMA 250:2003, ANSI/IEC 60529:2004
8. 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.
9. **Equipment Ratings:**
Voltage maximum = 28 VDC
Type 4X, IP66

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

2 January 2019

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

to US Certificate Of Conformity No: FM18NUS0014

10. Description of Equipment:

General – HAWK CGR series equipment is a continuous Level and Interface Measurement unit. It uses low power high frequency RF pulses based on the TDR principle to measure liquids and solids in contact with the sensing probe. These units are usually mounted directly at the level measurement point – at the top of a storage vessel – with the probe directed downwards in contact with the material product surface. HAWK CGR units are available with either 2 wire loop power or 4 wire option.

Construction – The HAWK CGR enclosure can be either dual chamber housing or single chamber housing. In case of dual chamber housing, the amplifier is located inside the main compartment and the user connections are terminated in the rear compartment, whereas in single chamber housing, the user has to make connections directly to the amplifier connector.

Ratings – Voltage maximum = 28 VDC.

Model Code:

CGRabcdeefgggghijklm Centurion Guided Radar

a= 2(for 2 wire) or 4 (for 4 wire)

b = A to Z –(Communication)

c = 0-5 or A-Z (Housing)

d= 0 (none), 1 (1/2"NPT), 2 (3/4" NPT), 3 (M20), 4 (M25), 5-9 (various sizes) –(Gland Entry)

eee= Axx, Bxx, Cxx, Dxx, Exx, Fxx, Jxx and Kxx –(Probe type)

f= A to Z –(probe variant/materials)

gggg = X (mounting options for threads and flanges)

h= B, E, V, S or M –(O-ring seal)

i= 1-9 or A-Z –(Temperature Class)

j= 1-9 or A-Z (Process Pressure)

kk= GP (Approval standard General Purpose US and CA)

lll= 0-9999 – (Probe length)

m = OEM company Code (optional)

11. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

12. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals under Project ID 3057129.

13. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
2 nd January 2019	Original Issue of certificate with RR216827 dated 2 nd January 2019.

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