



INERIS

SAFETY DEVICES

Certificate of compliance In accordance with IEC 61508

SIL-INERIS 147043-A / 2014

The National Institute for Industrial Environment & Risks (INERIS - Institut National de l'Environnement Industriel et des Risques), a public organization, established by decree No.90-1089 of 7 December 1990, and accredited by COFRAC under number 5-0045 for certification of products and services (scope of accreditation available on the website www.cofrac.fr)

issues the present certificate for the following model:

Trade Mark : **HYCONTROL**
Denomination: **VF2**
Manufacturer: **HYCONTROL LTD.**
Larchwood House, Orchard Street, Redditch, Worcestershire,
B98 7DP
UNITED KINGDOM
Type: **VF2xxx1... or VF2xxx5...**
Applicant:
of the certificate: **HYCONTROL**
Description : **Guided radar TDR level meter**

1. Functional safety

The safety function « **level meter** » has obtained the following classification
Safety Integrity Level : SIL 2

SFF (safe failure fraction)	94%
λ_{SD}	35
λ_{SU}	471 FIT
λ_{DD}	571 FIT
λ_{DU}	65 FIT
DC_D	87%
Mode commun retenu	0%
PFH (Probability of failure per hour)	65 FIT
Architecture	1oo1D

2. Configuration version

	Converter Board	Sensor Board	Exd Barrier (for ATEX application)
Hardware reference ¹	4000342401 k	4000357001 o	4000512701 h
Software reference	V 1.06.02	V 1.21.02.	/

3. Assessment

The assessment of the safety functions in accordance with IEC 61508 standard is consigned in the reports INERIS / DSC-14-147043-07229A.

4. Safety for use

Safety for use are described in the user guides ref VF2 SIL2 (Safety manual) and VF2 manual (handbook).

Verneuil-en-Halatte, 2014.07.08



[Signature]
 The Chief Executive Officer of INERIS,
 By delegation
 Dominique CHARPENTIER
 Certification Division,
 Manager

¹ Hardware reference without potting