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(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere Directive 2014/34/EU
- (3) EU-Type Examination Certificate Number

TÜV 18 ATEX 8330 X

Issue: 00

(4) Equipment:

Compac Coriolis Meters – V50 and KG100

(5) Manufacturer:

(6) Address:

Compac Industries Ltd 52 Walls Road, Penrose,

Auckland 1061, New Zealand

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex 8330.00/18

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2018

EN 60079-11:2012

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 2 G Ex ib IIA T4 Gb -40°C ≤ Tamb ≤ +70°C

TUV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2019-04-04

Dipl.-Ing. Klauspeter Graff.

This EU-Type Examination Certificate without signature and stamp shall not be valid.

This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group. Am Grauen Stein 51105 Köln

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(13) Annex

(14) EU Type Examination Certificate TÜV 18 ATEX 8330 X Issue: 00

(15) <u>Description of equipment</u>

15.1 Equipment and type:

Compac Coriolis Meters - V50 and KG100

15.2 Description / Details of Change

General product information

The Compac V50 and KG100 Meters are Coriolis flow meters.

The V50 Meter enclosure is made from polycarbonate or polycarbonate/ABS. External connection to the V50 Meter is made via an integral cable up to 5 metres in length terminated with a 10 pin receptacle. An extension cable extending the total length of cable to 50 metres may also be used.

The KG100 Meter enclosure is made from zinc coated mild steel (Zintex) with a powder coat finish. The KG100 Meter may be fitted with either a CI508 or CI520 Adaptor board.

External connection to the KG100 Meter (with CI508) is made via an integral 6 core cable up to 5 metres in length terminated with a 10 pin receptacle. An extension cable extending the total length of cable to 50 metres may also be used for the KG100 Meter (with CI508).

External connection to the KG100 Meter (with CI520) is made via an integral 15 core cable up to 5 metres in length terminated with a 5 pin connector (J200 - for factory programming only), an 18 pin connector (J201) and a 10 pin connector (J202). An extension cable extending the total length of cable to 10 meters may also be used for the KG100 Meter (with CI520).



Technical Data

Electrical Data

The following parameters shall be considered when connecting the equipment to an intrinsically safe circuit:

V50 Meter J1 (Doc Cl225 Schematics Sht 5)		
Ui	6 V	
li	235 mA	
Pi	1.1 W	
Li	50 μΗ	
Ci	137 μF	

KG100 Meter (with CI508) J201 (Doc CI508 Schematics Sht 2)				
Ui	6 V			
li	235 mA	-		
Pi	1.1 W			
Li	50 μH			
Ci	137 μF			

KG100 Meter (with CI520) (Doc CI520 Schematics Sht 2)					
J201		J202			
Ui	17.5 V	Ui	6 V		
li	1.7 A	li	235 mA		
Pi	29.75 W	Pi	1.05 W		
Li	10 μΗ	Li	10 μΗ		
Ci	3 nF	Ci	146 μF		

Thermal Data

Ambient temperature

Tamb -40°C ≤ to ≤ +70°C

Compac Coriolis Meters - V50 and KG100: T4

(16) Test-Report No.

557/Ex 8330.00/18

(17) Special Conditions for safe use

For the KG100 with CI520 Adaptor board, programming connector J200 (5 pin connector) shall not be connected in the hazardous area and is only used for factory programming

This EU Type Examination Certificate without signature and official stamp shall not be valid. This certificate may be circulated without alteration. Extracts or alterations are subject to approval by: Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH



(18) <u>Basic Safety and Health Requirements</u>

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2019-04-04

Dipl.-Ing. Klauspeter Graf

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