

# TYPE EXAMINATION CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended)

1. **Type Examination Certificate Number:** ITS22UKEX0573X Issue 00
2. **Product:** Filter Control Type RM\*, IP\*, ESM\*, JBC\*, UCT and Filtronic
3. **Manufacturer:** RECO Gesellschaft für Industriefilter Regelung mbH
4. **Address:** Junkersring 11, 53844 Troisdorf, Germany
5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
6. Intertek Testing and Certification Limited, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the products intended for use in potentially explosive atmospheres given in Schedule 1 of UKSI 2016:1107 (as amended).

The examination and test results are recorded in the confidential report 105016214CHE-002 dated 14<sup>th</sup> June 2023.

7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 and EN 60079-31:2014 except in respect of those requirements referred to within item 14 of the Schedule.
8. If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
9. This Type Examination Certificate relates only to the design of the specified product and not to specific items subsequently manufactured.
10. The marking of the product shall include the following:



II 3 D Ex tc IIIC T85°C Dc

-10°C ≤ Ta ≤ +50°C

**Certification Officer:** \_\_\_\_\_

R J Tunnicliffe

**Date:** \_\_\_\_\_

14th June 2023

## SCHEDULE:

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### 11. Description of Equipment or Protective System

The filter controller, type RM\*, IP\*, ESM\*, JBC\*, UCT and FILTRONIC is used to control solenoid valves on filtering separators with compressed air pulse cleaning. The filter controller consists of a polycarbonate housing with either blue or transparent cover.

The filter controller is connected with the clean gas and raw gas side of the filter to be monitored via measuring hoses from silicon. It is ensured directly at the respective sample taking point by suitable filter elements that no dust particles can enter through the hoses into the inside of the filter controller.

The hoses are routed to the inside of the housing via Schott push-fits (Legris Co., product number 31160600); the electrical supply is provided via separately certified cable and wire entries.

#### Parameters:

Type	Voltage [V]	Current [A]	Max. Services	Permissible Ambient temperature	Max. surface temperature T	Housing protection as per EN 60529
RM-V8/16	DC 24	1.0	24 W	-10 °C ... +50 °C	85 °C	IP6X
RM-VR18	AC 110 AC 230	0.15 0.07	16 VA			
RM-BV8 / 12	AC 110 AC 230	0.15 0.07	16 VA			
RM-200 ATEX	DC 24	1.5	36 W			
	AC 110 AC 230	0.15 0.07	36 VA			
RM-208C ATEX	DC 24	1.5	36 W			
	AC 110 AC 230	0.15 0.07	36 VA			
RM-216C ATEX	DC 24	1.5	36 W			
	AC 110 AC 230	0.15 0.07	36 VA			
RM-310C/CT	DC 24	1.5	36 W			
	AC 110 AC 230	0.15 0.07	36 VA			
RM-350 ATEX	DC 24	1.5	36 W			
	AC 110 AC 230	0.15 0.07	36 VA			
IP*	DC 24	1.5	36 W			
	AC 110 AC 230	0.15 0.07	36 VA			
ESM-3	AC 110 AC 230	0.10 0.05	10 VA			
	AC 110 AC 230	0.15 0.07	16 VA			
JBC*	DC 24	1.5	36 W			
	AC 110 AC 230	0.15 0.07	36 VA			
Filtronic	AC 110 AC 230	0.15 0.07	16 VA			
	AC 110 AC 230	0.15 0.07	16 VA			
UCT	AC 320 AC 400	0.07 0.04	16 VA			
	DC 24	0.15	3.6 W			
RM-DPC Micro	AC 110 AC 230	0.032 0.017	3.5 VA			
	AC 110 AC 230	0.014 0.007	1.5 VA			
RM-BV4 Micro	AC 110 AC 230	0.10 0.05	10 VA			
	DC 24	1.0	24 W			

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This Certificate is accredited under UKAS schedule 0010.

Intertek Testing & Certification Limited, Cleve Road, Leatherhead, Surrey, KT22 7SA  
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

## SCHEDULE:

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### 12. Report Number

Intertek Report: 105016214CHE-002 dated 14<sup>th</sup> June 2023.

### 13. Conditions of Certification

(a). Special Conditions of Use

- The filter control must be mounted protected from UV light.
- The filter control enclosure and lid must be protected against mechanical forces.

(b). Conditions of Manufacture - Routine Tests

- None.

### 14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) affected by this variation have been identified and assessed in Intertek Report: 105016214CHE-002 dated 14<sup>th</sup> June 2023.

### 15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
- / 2/2 Ventilpatrone NG4	833-622377C	A	2006-12-14
- / 2/2 Ventilpatrone NG 3.2	833-622460C	-	2007-05-29
Bohrbild 38	Bohrbild 38.cdr	-	29.11.2002
Bohrbild 38A/8	Bohrbild 38A_8.cdr	-	08.05.2006
Bohrbild 38A/8 (Bestückung)	Bohrbild 38A_8.cdr	-	08.05.2006
RECO-Standardgehäuse	RECO-Standardgehäuse.cdr	-	19.02.2002
Bohrbild 139A/8	Bohrbild 139A_8.cdr	-	07.03.2005
Bohrbild 132/8	Bohrbild 132_8.cdr	-	30.11.2006
Bohrbild 166A/8	Bohrbild 166A_8.cdr	-	16.03.2007
RM-200C ATEX	RM-11-0005Z-000	-	07.02.2019
Bohrbild 28A (4 Sheets)	Bohrbild 28A.cdr	-	27.09.2011
Safety Guidelines for electrical equipment in Zone 22, Cat. 3D (3 Sheets)	RDN1000477_b	02	2023-06-12
UKEX Markings	RDN20230315	3	13.06.2013
Frontpanel keypad RECO Universal with middle-size pocket (3 Sheets)	60090241_Frontpanel keypad RECO Universal with middle-size pocket_F01.01.ai	-	08.09.2016