

Remote Control RC2

Operations Manual



1194 Oak Valley Dr, Ste 20, Ann Arbor MI 48108 USA (800) 959-0329 • (734) 769-0573 • www.goodforgas.com

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For your Safety

As with any piece of complex equipment, the GfG RC2 will do the job it is designed to do only if it is used and serviced in accordance with the manufacturer's instructions. Please protect yourself and your employees by following the instructions in this manual. All individuals who have or will have the responsibility for using and servicing this product must carefully read this manual. The warranties made by GfG with respect to the product are voided if functions or parameters are changed without the permission of GfG. They are also voided if the product is not used and serviced in accordance with the instructions in this manual. The above does not alter any statements by GfG regarding warranties, conditions of sale and/or delivery.

Operational Hints

The remote control RC2 is connected to a GfG transmitter by a connection cable and is used for operating the transmitter or as a display. When connected to a GfG transmitter it provides a display and a keypad, the readout and the keypad functions of the remote control are identical with those of the GfG transmitter.

The remote control RC2 is approved for use in explosive areas and is subject to an EC-Type examination Certificate issued by DEKRA EXAM GmbH, according to directive 94/9/EG (ATEX 100a).

Certificate: BVS 04 ATEX E 212

Labeling: II 2G Ex ia IIC T4 Gb -20°C≤T_a≤+50°C

The remote control may be connected to or disconnected from the transmitter even in an explosive area.



Do <u>NOT</u> replace the battery of the remote control in potentially explosive areas.

Only use 9V block batteries type DURACELL-PROCELL Alkaline, 6LR61 / MN1604, the plastic bottoms of which prevent the leaking of electrolyte.

General Description

The Remote Control RC2 is used for control or adjustment of the zeropoint and sensitivity when testing the transmitter.

Should the Series 28 transmitters be mounted in hard to access locations (i.e. close to the ceiling) you may, even in explosive areas, keep the cable procured permanently for connecting the remote control to the transmitter (maximum cable length is 10m / 33 feet). You can connect this cable to the remote control for display or service purposes.



The maximum cable length between transmitter and remote control is 10m / 33 feet. Only use cables approved by GfG Instrumentation, Inc.

The remote control RC2 is supplied with a helix cable for connection to GfG transmitters. On one end of the cable is plug A (see figure 1), which plugs into the socket on the transmitter. The other end of the cable is connected to the remote control and locked in place by slightly turning the sleeve ring of the plug (plug B).



Fig. 1

The On/Off switch for the remote is located at the top of the case near the plug connection.

When the unit is turned on, the green operational LED above the display is illuminated.

The keypad functions and the display of the remote control RC2 are absolutely identical with those of the transmitter.

Operation

The function of the keypad in the different operational and special modes are described in detail in the operations manual of the relevant transmitter.



For servicing a GfG transmitter without display, the remote control RC2 is required.

The remote control RC2 is allowed to be used in explosive areas.



For connection to a GfG transmitter fix plug A (see figure 1, page 3) into the transmitter. If the plug is connected incorrectly, regardless of the transmitter polarity protection (nose at plug A), the display at the remote control drops out after a few seconds and will not function.

When the unit is turned on, the green operations LED must be on.

Trouble shooting

If the operational LED does not light up, either replace the battery or check to ensure the battery is inserted correctly (check for correct polarity).

If the display of the remote control does not show a reading when it is connected to the transmitter, although the operational LED is on, either the connection is wrong (check plug) or one of the units, either the transmitter of remote control, is faulty.

Replacement of battery

Remove the two Allen screws on the top then slide the top upward, being careful of the position of the loose insulating plate. Then slide the front part (with display and keypad) a slight amount upward and lift it off. The printed circuit board and the battery holder are affixed to the front part by means of short cables.



Do not replace the battery of the remote control in a potentially explosive area.

Use only 9V batteries type DURACELL-PROCELL Alkaline, 6LR61 / MN1604.

When replacing the 9V battery be cautious of the correct polarity (+ and – are indicated on the holder). After turning the unit on, the green operational LED lights up. If there is incorrect polarity of the battery, the unit cannot be turned on (the green LED does not light up).

Signal Transmission

The signal from the transmitter to remote control is an intrinsically safe transmission. Both the transmitter and the cable of the remote control RC2 ensure the compliance of the following values:

Maximum output voltage	Uo	6 V DC	Maximum output current	lo	45 mA
Maximum output power	Po	68 m W	Maximum output capacity	Co	10 µF
Maximum output inductivity	Lo	1 mH			-

Technical Data

Remote Control RC2	
For connection to transmitter:	Series 28 transmitters
Current Supply	
Battery Type:	9 V battery DURACELL-PROCELL Alkaline, 6LR61 /
	MN1604
Climate Conditions	
Short-term storage temperature:	-25 to +60°C
Recommended storage temperature:	0 to +30°C
Operational temperature (ambient):	-20 to +50°C
Humidity range:	5 to 90% r.h.
Atmospheric pressure range:	800 to 1100 hPa
Enclosure	
Casing material:	Compound, anti-static
Dimensions:	60 x 120 x 35 mm / 2.4 x 4.7 x 1.4 inches (W x H x
Protection:	D) (H with plug: 180mm / 7 inches)
Cable connection to transmitter:	IP 54
	Maximum cable length 10m / 33 feet
Approvals and Certifications	
Electromagnetic compatibility:	DIN EN 50270:2006 Type class I and Type class 2
Labeling and Ignition protection:	ll 2G Ex ia IIC T4 Gb -20°C≤T _a ≤+50°C
EC-Type Examination Certificate:	BVS 04 ATEX E 212
Production monitoring:	C€ 0158 (by notified body – DEKRA EXAM GmbH)

EC-Type Examination Certificate



Remote Control RC2	Klönnestrasse 99 D-44143 Dortmund Tel: +49 (231) 56400-0 Fax: +49 (231) 516313 E-Mail: info@gfg-mbh.com www.gfg.blz
Edited: 08.10.2004 Amended: 04.08.	2010
GfG Gesellschaft für Gerätebau i warning devices, which are subjec 9001. Subject to supervision by means o 187- issued by the notified bod apparatus of instrumentation Grou gas detectors, gas warning system increased safety, encapsulation and	mbH develops, produces and sells gas sensors and g t to a quality management system as per DIN EN IS of a quality system -Certificate No. BVS 03 ATEX ZQS / y, DEKRA EXAM GmbH, is the production of electric p I and II, categories M1, M2, 1G and 2G for gas sensor ms in ignition protection classes explosion- proof encasin d intrinsical safety, as well as their measuring function.
The Remote Control RC2 compli systems for proper use in exp council directive 2004/108/EC	es with directive 94/9/EC for devices and protection plosion endangered areas (ATEX- directive) and wi for electromagnetic compatibility.
For electrical explosion Labelling	BVS 04 ATEX E 212
The guidelines have been complied below: • Electrical explosion protection - Electrical apparatus for po	with under consideration of the standards mentioned International standards mentioned
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GfG Instrumentation, Inc.

1194 Oak Valley Dr. Suite 20 Ann Arbor, MI 48108 USA

(800) 959-0329
(734) 769-1888
+1 734 769 0573
+1 734 769 1888
info@goodforgas.com
www.goodforgas.com

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