



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HANNA INSTRUMENTS PH211 R. You'll find the answers to all your questions on the HANNA INSTRUMENTS PH211 R in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual HANNA INSTRUMENTS PH211 R**  
**User guide HANNA INSTRUMENTS PH211 R**  
**Operating instructions HANNA INSTRUMENTS PH211 R**  
**Instructions for use HANNA INSTRUMENTS PH211 R**  
**Instruction manual HANNA INSTRUMENTS PH211 R**

Instruction Manual

**pH211R**

**Microprocessor-based  
Bench pH/mV/°C Meter  
with Analog Output**



**HANNA**  
instruments  
www.hannainst.com



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**Manual abstract:**

*hannainst.com Dear Customer, Thank you for choosing a Hanna Instruments Product. Please read this instruction manual carefully before using the instrument. This manual will provide you with all the necessary information for correct use of the instrument, as well as a precise idea of its versatility in a wide range of applications. If you need additional technical information, do not hesitate to e-mail us at tech@hannainst.com. This instrument is in compliance with the directives. PRELIMINARY EXAMINATION Remove the instrument from the packing material and examine it carefully to make sure that no damage has occurred during shipping. If there is any damage, notify your Dealer. Each meter is supplied with: · HI 1131B glass body pH electrode with BNC and 1 m cable · HI 7669/2W temperature probe · HI 76404 electrode holder · pH 4.*

*01 & pH 7.01 buffer solutions (20 mL each) · HI 7071S electrolyte solution · 12 Vdc power adapter · Instruction manual Note: Save all packing material until you are sure that the instrument functions correctly. Any defective items must be returned in the original packing with the supplied accessories. TABLE OF*

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Replace the buffer if necessary Defective electrode Replace the electrode The meter does not Out of order temperature Replace the probe work with the  
tempera- probe ture probe The meter fails to cali- Out of order pH electrode Replace the electrode brate or gives faulty readings 16 17 ORP  
PRETREATMENT SOLUTIONS HI 7091L Reducing pretreatment solution, 500 mL bottle HI 7092L Oxidizing pretreatment solution, 500 mL bottle pH  
ELECTRODES All electrode part numbers ending in B are supplied with BNC connector and 1 m (3.3') cable. HI 1330B Glass body, semimicro, single  
junction, refillable, combination pH electrode. Use: laboratory, vials.  
5mm DIA 0.2" 5mm 0.2" HI 1330 120 mm 4.7" "S" VERSION HI 1043B Glass body, double junction, refillable, combination pH electrode. Use: strong  
acid/alkali.

9.5mm DIA 0.37" 12 mm 0.5" HI 1331B Glass body, semimicro, single junction, refillable, combination pH electrode. Use: flasks. 8 mm 0.3" 7.5mm DIA  
0.29" HI 1331 210 mm 8.25" HI 1043 120 mm 4.

7" "S" VERSION "S" VERSION HI 1053B Glass body, triple ceramic, conic shape, refillable, combination pH electrode. Use: emulsions. 12 mm 0.5" HI  
1230B Plastic body, double junction, gel-filled, combination pH electrode. Use: general, field. 12 mm 0.5" HI 1230 120 mm 4.7" HI 1053 "S" VERSION "S"  
VERSION 120 mm 4.7" HI 1083B Glass body, micro, Viscolene, non-refillable, combination pH electrode. Use: biotechnology, micro titration.  
12 mm 0.5" 5 mm 0.2" 3 mm 0.12" 3.0 mm DIA 0.

12" HI 2031B Glass body, semimicro, conic, refillable, combination pH electrode. Use: semisolid products. 6 mm 0.25" HI 2031 75 mm 2.95" HI 1083 120  
mm 4.

7" "S" VERSION HI 1131B Glass body, single junction, refillable, combination pH electrode. Use: general purpose. 9.5mm DIA 0.37" 12 mm 0.5" HI 1332B  
Plastic body, double junction, refillable, combination pH electrode. Use: general purpose. 12 mm 0.5" HI 1131 HI 1332 "S" VERSION 120 mm 4.7" "S"  
VERSION 120 mm 4.

7" 18 19 FC 100B PVDF body, double junction, refillable, combination pH electrode. Use: general purpose for food industry. 12 mm 0.5" FC 100 120 mm  
4.7" HI 1413B Glass body, single junction, flat tip, Viscolene, non-refillable, combination pH electrode. Use: surface measurement. 12 mm 0.5" HI 1413 110  
mm 4.3" FC 200B PVDF body, open junction, conic, Viscolene, non-refillable, combination pH electrode. Use: meat & cheese.

6 mm 0.25" ORP ELECTRODES HI 3131B Glass body, refillable, combination platinum ORP electrode. Use: titration. 12 mm 0.5" FC 200 75 mm 2.  
95" HI 3131 150 mm 5.9" FC 210B Glass body, double junction, conic, Viscolene, non-refillable, combination pH electrode. Use: milk, yogurt. 12 mm 0.5"  
"S" VERSION HI 3230B Plastic body, gel-filled, combination platinum ORP electrode.

Use: general purpose. 12 mm 0.5" FC 210 120 mm 4.7" HI 3230 120 mm 4.7" "S" VERSION FC 220B Glass body, triple-ceramic, single junction, refillable,  
combination pH electrode. Use: food processing. 9.5mm DIA 0.37" 12 mm 0.5" HI 4430B Plastic body, gel-filled, combination gold ORP electrode.

Use: general purpose. 12 mm 0.5" FC 220 HI 4430 120 mm 4.7" FC 911B PVDF body, double junction, refillable with built-in amplifier, combination pH  
electrode. Use: very high humidity. 12 mm 0.5" "S" VERSION 120 mm 4.7" FC 911 110 mm 4.3" 20 21 Extension cables for screw-type electrodes (screw to  
BNC adapter) HI 7855/1 Extension cable 1 m (3.3') long HI 7855/3 Extension cable 3 m (9.

9') long HI 7855 SERIES CABLE CONNECTORS CONNECTOR AND 3.0 mm (0.12") CABLE WITH BNC WARRANTY All Hanna Instruments meters are  
guaranteed for two years against defects in workmanship and materials when used for their intended purpose and maintained according to instructions.

Electrodes and probes are guaranteed for a period of six months. This warranty is limited to repair or replacement free of charge.

Damage due to accident, misuse, tampering or lack of prescribed maintenance are not covered. If service is required, contact the dealer from whom you  
purchased the instrument. If under warranty, report the model number, date of purchase, serial number and the nature of the failure. If the repair is not  
covered by the warranty, you will be notified of the charges incurred. If the instrument is to be returned to Hanna Instruments, first obtain a Returned Goods

Authorization number from the Customer Service department and then send it with shipping costs prepaid.

When shipping any instrument, make sure it is properly packaged for complete protection. CONNECT TO SCREW TYPE ELECTRODES CONNECT TO THE  
BNC SOCKET OF THE METER OTHER ACCESSORIES HI 710005 HI 710006 HI 710012 HI 710013 HI 710014 HI 76404 Voltage adapter, 115 Vac / 12  
Vdc, US plug Voltage adapter, 230 Vac / 12 Vdc, European plug Voltage adapter, 230 Vac / 12 Vdc, UK plug Voltage adapter, 230 Vac / 12 Vdc, S.Africa  
plug Voltage adapter, 230 Vac / 12 Vdc, Australian plug Electrode holder All rights are reserved. @@@@Avoid touching this glass bulb at all times.  
@@Any variation introduced by the user to the supplied equipment may degrade the instrument's EMC performance. To avoid electrical shock, do not use  
this instrument when voltages at the measurement surface exceed 24 Vac or 60 Vdc. To avoid damages or burns, do not perform any measurement in  
microwave ovens. 22 23 SALES AND TECHNICAL OF CONFORMITY CE DECLARATION SERVICE CONTACTS Australia: Tel. (03) 9769.0666 · Fax (03)  
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2942 Japan: Tel. (03) 3258.9565 · Fax (03) 3258.9567 Korea: Tel. (02) 2278.

5147 · Fax (02) 2264.1729 Malaysia: Tel. (603) 5638.9940 · Fax (603) 5638.9829 Singapore: Tel.

6296.7118 · Fax 6291.6906 South Africa: Tel. (011) 615.6076 · Fax (011) 615.8582 Taiwan: Tel. 886.2.2739.3014 · Fax 886.

2.2739.2983 Thailand: Tel. 66.2619.0708 · Fax 66.2619.0061 MANPH211R-R1 United Kingdom: Tel. (01525) 850.855 · Fax (01525) 853.

668 USA: Tel. (401) 765.7500 · Fax (401) 765.7575 08/05 For e-mail contacts and complete list of Sales and Technical offices, please see [www.hannainst.com](http://www.hannainst.com) 24.



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