

Probe Quality Certificate

HI7698194 Probe: K3594590 SN: Software version:

of Standards (NIST) in the USA or to internationally acceptable national physical standards. The standards and reference Instruments procedures, using standards and reference instruments, the accuracy of which is traceable to the National Institute instruments used in calibration and testing are supported by a calibration system which meets requirements of ISO 9001. The following tests have been specifically as the following tests as the following tests as the following tests have been specifically as the following tests as the following tests are the foll Hanna Instruments certifies that this instrument has been produced, calibrated and tested to meet all applicable Hanna Description: Digital probe with three connections for pH (ORP), EC and DO sensors and integral temperature sensor

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The results are listed below:			
External references devices*: mV:	ηV:	SN US36095802 [HP, 34401A]	
ກຸ	2:	SN 06111204 [resistors box, IET]	
Factory calibration:	1V (ρH):	mV (pH): 2022.06.06 mV (0RP):	2022.06.06
m	C	2022.06.06 DO:	2022.06.06
9	n	2022,06,07	

!+ 4

*) All external references are periodically checked and are used only if are inside certification intervol; NP = not performed; RES = Resistance value

[with simulator]: (2° 05 @) 00

D0 [mV]: Reading [%]: Tolerance [%]: Reading [mS/cm]: x Reading [µS/cm]: 1405 Tolerance [mS/cm]: x Tolerance [µS/cm]: ±4 EC [mS/cm]:

0.0

100.0 ± 1.0

45

12.81 ± 0.04 12.80

Passed Passed

2000

Calibration and testing criteria have been met

Passed

Date: 2022.06.07

QCInspector: Coman Andrei/Engineer

[Name / Title of Signatory]

Signature:

EQC_HI7698194_rev.0.1_April 2019



Electrode Quality Certificate

HI7698194-3 Electrode: Parameter: K81139 SN: Recommended for:

instruments used in calibration and testing are supported by a calibration system which meets requirements of ISO 9001. of Standards (NIST) in the USA or to internationally acceptable national physical standards. The standards and reference Instruments Procedures, using standards and reference instruments, the accuracy of which is traceable to the National Institute Hanna Instruments certifies that this electrode has been produced, calibrated and tested to meet all applicable Hanna Description: EC sensor with screw type connector

Standard Reference Materials: (12.88 mS/cm → 5.00 mS/cm)*: EC response time Tests performed using reference devices: Tolerance [s]: Reading [µS/cm]:
EC (standard) [mS/cm]: Standard time [s]: Reading [mS/cm]: Tolerance [µS/cm]: Offset (air) [µS/cm]: Tolerance [mS/cm]: EC 12.88 10.30 - 15.46 SRM 999 [NIST] 13.95 + +1 5 Passed Passed Passed

*) Evaluated for 90 % of step; NP = not performed.

Quality control and testing criteria have been met.

Date: 2022.06.21

QCInspector: Szigyarto N./Engineer

Signature:

[Name / Title of Signatory]

EQC_HIZ698194-3_rev.0.1_December 2018



Electrode Quality Certificate

Electrode: Parameter: SN: Recommended for: HI7698194-2 DO K76168 HI98194

Description: DO sensor with screw type connector

Hanna Instruments certifies that this electrode has been produced, calibrated and tested to meet all applicable Hanna Instruments Procedures, using standards and reference instruments, the accuracy of which is traceable to the National Institute of Standards (NIST) in the USA or to internationally acceptable national physical standards. The standards and reference instruments used in calibration and testing are supported by a calibration system which meets requirements of ISO 9001.

			ND - not portoned
Passed	101.0	Slope calculated [%]:	
	85.0 - 120.0	Slope tolerance [%]:	
Passed	2.0	Reading (after 1 minute) [%]:	
	≤10.0	Tolerance [%]:	
	[%]: 0.0	0% saturation (Zero oxygen solution)[%]: 0.0	
Passed	103.0	Reading [%]:	
	90.0 - 120.0	Tolerance [%]:	
,	100.0	25 °C): 100% saturation (air) [%]:	DO (@ 25 °C):
		Tests results listed below:	Tests re
ion	Certified Zero Oxygen Solution	ordified the serious programmes of the serio	STATION

NP = not performed.

Quality control and testing criteria have been met.

EQC.H7698194-2.fevOl.December 2018

Hanna Instruments Inc. 584 Park East Drive Woonsocket, RI 02895

WWW.hannainst.com

Date: 2022.06.16

QC Inspector: Szigyarto N. / Engineer
[Name/Title of Signatory]

Signature:



Electrode Quality Certificate

Description: pH/0RP sensor with screw type connector HI7698194-1 Electrode: Parameter: pH/ORP K75470 SN: Recommended for: HI98194

Hanna Instruments certifies that this electrode has been produced, colibrated and tested to meet all applicable Hanna Instruments Procedures, using standards and reference instruments, the accuracy of which is traceable to the National Institute of Standards (NIST) in the USA or to internationally acceptable national physical standards. The standards and reference instruments used in calibration and testing are supported by a colibration system which meets requirements of ISO 9001. Standard Reference Materials:

	d and are used only if are inside certi	*) All references are periodically checked and are used only if are inside certification interval: NID = not notice.
	Maximum value [KΩ]: 10	relei ei ice impedance (@ 25°C): Maximum value [KΩ]:
50 - 150 Passed		Poferonce impedance (@ 25°C):
	Tolerance [s]: 1	(+:01 PU -> /:01 PH)^***:
	Standard time [s]: <1	(A O) SH 3 ST STREET
7 Passed	Reading [mV]: 237	mV pH room
10	Tolerance [mV]: ±10	
	Standard value [mV]***: 234	ORP (@ 25°C);
172.8 Passed	Reading [mV] **: 17	ORD () HE SO
170.4 - 177.5	Tolerance [mV]: 1	
177.5	Slope (4.01 pH) [mV]: 1:	
7 Passed	Reading [mV]: 2.7	
±10	Tolerance [mV]: ±	
0.0	Offset (7.01 pH) [mV]: 0	mV pH (@ 25 °C):
	e devices;	lests performed using reference devices:
SN#148047ADH [Megohmmeter]	ΚΩ/ΜΩ:	External/Internal Reference Devices*:
185i, 186g, 191d [NIST] Certified ORP Standard Solution	ORP:	e de la

^{**)} Offset compensated. ea anly If are inside certification interval; NP = not performed.

Quality control and testing criteria have been met.

Date: 2022,06,20

QCInspector: Coman Andrei/Engineer

[Name / Title of Signatory]

Signature:

EQC_HI7698194-1_rev.0.1_December 2018

^{***)} Value taken from certificate.
****) Evaluated for 90 % of step.



Instrument Quality Certificate

Instrument:

07250019101 SN:

Software version:

Description: Multiparameter Waterproof Meter

Honna Instruments certifies that this instrument has been produced, calibrated and tested to meet all applicable Hanna The following tests have been performed according with the reference from the QC Procedure of the meter. instruments used in calibration and testing are supported by a calibration system which meets requirements of ISO 9001. of Standards (NIST) in the USA or to internationally acceptable national physical standards. The standards and reference Instruments procedures, using standards and reference instruments, the accuracy of which is traceable to the National Institute

Passed	4.	B.2. Labeling and Marking
Passed	4.	B.1. Visual Inspection
Result	Reference	B. Aesthetic Control
Passed	6,	A.10. Factory calibration test
Passed	5.8.	A.9. Power consumption test
Passed	5.7.	A.B. USB Port test
Passed	5.6.	A.7. Measurement test (pH, ORP, EC, DO, T)
Passed	5.5.	A.6. Eeprom test
Passed	5.4.	A.5. Real time clock test
Passed	5.3.	A.4. Keyboard test
Passed	5.2.	A.3. Sound test
Passed	5.1.	A.Z. LCD test
Passed	ż	A.1. Switch On/Off test
Result	Reference	A. Functionality tests

Date: 2022.06.21

QCInspector: Tudor Coman / Engineer

Signature:

[Name / Title of Signatory]

IQC_HI98194_rev.0.1_April 2019