

User's Guide

EXTECH[®]
INSTRUMENTS
A FLIR COMPANY

Digital Conductivity / pH Meter

Model EC600



Introduction

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Supplied Equipment List

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Meter Description



Display Description

888

M+

RM



Keypad Description



Store, Recall, and Clear Datalogger Memory

STORE Readings



M+

M+/RM

RECALL Readings

RM

M+/RM

CAL M+/RM

ENTER

CLEAR Readings

ENTER

pH Measurement Mode

Preparation for Measurement

3-Point Calibration (7.00pH, 4.00pH and 10.01pH)

CAL
C1

CAL **7.00'**

C2

CAL **4.00'**

C3

CAL **10.01**

(L) (M) (H)

1-Point and 2-Point Calibration

L **M** **H**
L **M** **H**
Note: **ENTER**

L

H

Testing the pH of a Sample

Programming pH Parameters

	Parameters	Code	Selections
P1		SOL	
P2		PU 1	
P3		PU 2	
P4			°C °F
P5		bL	
P6		AC	
P7			

Notes on P2 and P3 Parameters:

pH Measurement, Calibration, and Electrode Considerations

- Error messages

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mV Measurement Mode

mV Programming Parameters

Prompt	Parameters	Code	Settings
P1		<i>bl</i>	
P2		<i>AC</i>	

Parameter P1 (Display Backlight Setting)

CAL M+/RM

MODE

ENTER

Parameter P2 (Automatic Power OFF Setting)

CAL M+/RM

MODE

ENTER

Conductivity Measurement Mode

Preparation for Measurement

Calibration

μ

μ

μ

Notes

Measuring the Conductivity of a Sample

Calibration Considerations

μ μ μ
μ μ

μ μ

Measuring range	0.05 to 20 μ S/cm	0.5 μ S/cm to 200mS/cm		
	μ	μ	μ	
	(L)	(L)	(M)	(H)

Standard Solution Calibration Constant

Programming Parameters – Conductivity

Programming Parameters – Conductivity

μ

Solution	Temperature compensation coefficient



Picture (6-2)

Parameter P3 (Reference Temperature Selection)

CAL M+/RM
°C °C
MODE ENTER

Parameter P4 (Temperature Coefficient Temperature Compensation Setting)

CAL M+/RM
MODE ENTER

Parameter P5 (Electrode Constant calibration)

CAL M+/RM
MODE ENTER

Parameter P6 (Temperature units of measure)

CAL M+/RM
MODE ENTER

Parameter P7 (Display Backlight Setting)

CAL M+/RM
MODE ENTER

Parameter P8 (Automatic Power OFF Setting)

CAL M+/RM
MODE ENTER

Parameter P9 (Restore Factory Default Settings)

CAL M+/RM
MODE ENTER

Conductivity Measurement, Calibration, and Maintenance Considerations

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Specifications

pH Specifications

	∞
	∞ Ω
	°C

mV Specifications

Conductivity Specifications

	°C
	°C

Other Technical Parameters

Working Conditions

	°C
	≅

