



# COMBINED PH & CONDUCTIVITY METER



## Quality, Management, Environment, Health & Safety Standards



CDSO MD 5 License



USFDA Listed



European CE



ISO 9001:2015  
IAF



ISO 13485:2016  
NABCB/IAF



ISO 45001 : 2018  
IAF



7 Electric Safety Certifications  
IEC 60335-1 and IEC 60335-2-24, IEC 61010-1,  
IEC 61010-2-020 and 61010-2-101, IEC 61326-1,  
IEC 61326-2-6.

## INTRODUCTION

**MarkEn** Combined pH & Conductivity Meter, a cutting-edge instrument designed for accurate and reliable measurement of hydrogen ion activity in various solutions. Essential for laboratories, industrial applications, and educational settings, this Combined pH & Conductivity Meter provides precise readings of acidity and alkalinity. Its advanced technology ensures high performance and consistency, making it a vital tool for quality control, research, and environmental monitoring. With user-friendly features and robust construction, the MarkEn Combined pH & Conductivity Meter offers both ease of use and durability for diverse analytical needs.



## FEATURES

- **Dual Channel Measurement:** Channel 1: pH, mV, ORP, Ion (upgradeable)  
Channel 2: Conductivity, TDS, Salinity, Resistivity
- **User Interface & Display:** Capacitive touch display compatible with lab gloves with dual digital display for simultaneous multi-parameter readings
- **Temperature Compensation:** Includes automatic temperature compensation to adjust pH readings based on temperature variations.
- **Durable Electrode:** Durable membrane-glass combination pH electrode (ISM digital type) with built-in temperature sensor, upside-down mounting capability, and SG ancillary support; replaceable design.
- **User-Friendly Interface:** Intuitive menu and navigation system for simple operation and password protection for setup and calibration.
- **Auto Logging:** Capable of storing multiple readings for future reference, analysis and for convenient continuous monitoring.
- **Sterilization :**In-situ steam sterilization (up to 131°C with fermentation medium)
- **Probe Insertion Length :** Compact 52 mm (2.04") probe length ensures seamless bioreactor integration.

TECHNICAL SPECIFICATION	
<b>Make</b>	MarkEn
<b>Measurement Parameters</b>	pH, mV, ORP, Conductivity, TDS, Salinity, Temperature
<b>Digital pH</b>	(Ui 16V, Ii 30mA, Pi 50mW), Li = negligible, Ci = negligible, and two-wire current circuit
<b>pH Range</b>	0.00 to 14.00 pH
<b>Accuracy</b>	±0.01 pH
<b>pH Value</b>	>1.0 pH unit
<b>pH Resolution</b>	0.01 pH
<b>mV Range</b>	-1500 to +1500 mV
<b>mV Accuracy</b>	±0.1 mV
<b>mV Resolution</b>	0.1 mV
<b>Outer diameter (glass)</b>	12 mm (0.47")
<b>Temperature Range</b>	0°C to 100°C / 32.0 to 212.00 F
<b>Temperature Accuracy</b>	±0.5°C
<b>Temperature Resolution</b>	0.1°C
<b>Buffer Recognition</b>	Automatic & manual
<b>Calibration Points</b>	3 to 5 points
<b>Conductivity Range</b>	1 µS/cm to 200 mS/cm
<b>Conductivity Resolution</b>	0.01 µS/cm (auto-ranging)
<b>Conductivity Accuracy</b>	±0.5% of reading
<b>Calibration Points (Conductivity)</b>	1 to 5 points
<b>TDS Range</b>	0.010 mg/L to 500 g/L
<b>Salinity Range</b>	0.01 to 42 PSU
<b>TDS/Salinity Accuracy</b>	±0.5% of reading
<b>Temperature Compensation</b>	Automatic (0–100°C)
<b>Controller/Interface</b>	Microprocessor-based system
<b>Display</b>	High-resolution color LCD/LED touch display
<b>Data Memory</b>	≥500 records
<b>Data Output</b>	USB export, CSV/report format
<b>Probe Compatibility</b>	Dual channel (simultaneous measurement)
<b>Stirrer Input</b>	Provision for stirrer probe
<b>Calibration Solutions</b>	Supplied with pH buffer solutions (4.0, 7.0, 10.0) and conductivity calibration solution (1413 µS/cm)
<b>Power</b>	Battery/AC operated with combination electrode and ATC probe
<b>Accessories</b>	pH electrode, conductivity electrode, electrode stand, buffer & calibration solutions

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## CERTIFICATION



10 products tested by a WHO-PQS accredited laboratory



Intertek



ISO 14001: IAF



WHO GMP



BIFMA Certified, BIFMA Level 3



ASTM- Corrosion Free Products



ISO 2409

EN 13523-26,  
ISO 13849-1,  
IP 69, IP 65

& MANY OTHER...

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Regd office & Factory: 93/1, MIDC Satpur, Nashik- 422007 (IND)

New Delhi office - 05, A-44, VDS Tower, Sector 2, Noida- 201301. UP. India

Customer Care No.+91 91 3030 5959

www.markenworld.com info@markenworld.com

