



SMART PORTABLE CONDUCTIVITY METER

TYPE 103DF

MARINE ELECTRIC SYSTEMS, INC., is proud to introduce its "Smart Portable Conductivity Meter." The Type 103DF, is a user friendly microprocessor based meter, which incorporates features not found in any other system. Designed to operate as a stand-alone conductivity meter, it features:

- Simple operation and calibration
- Readout in either PPM or uS/cm
- Testing under actual environmental conditions
- Use with MIL-S-15103 REV D and REV F type grounded sensors
- No requirements for external temperature compensation
- Optional extended ranges (Specials - contact factory)

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GENERAL: Housed in a rugged splash resistant case, and given it's enormous capabilities, **MARINE ELECTRIC SYSTEM'S**, *Type 103DF Portable Conductivity Meter*, is the most affordable and “user friendly” hand-held conductivity meter available today. A simple switch allows the user to select and perform tests on either the older REV D or the newer REV F type salinity sensors. The *Type 103DF* was designed to monitor, verify salinity readings, or isolate problem areas encountered on board ships or land based environments, under “real-time” conditions. In lieu of remote “dip cell” sampling techniques, which do not emulate actual pipe flow or temperature conditions, the *Type 103DF* allows the user to perform testing of sensors, panels or entire piping systems, by temporarily replacing an existing sensor with “a known good” sensor, while maintaining the integrity of the working environment.

SPECIFICATIONS:

Conductivity Range:	0 -50 PPM (204 uS/cm)
Calibration:	Self Calibrating
Resolution:	0.1 PPM
Accuracy:	(+/-) 1.0% F.S.
Operating Temperature & Humidity:	0 to 50° C, to 95% RH
Sensor Temp Compensation:	To 25° C
Comp Reference @ 25° C:	10K ohms (REV F) - 2.808K (REV D)
Sensor Constant:	REV D (0.0184 or 0.1cm/uS)
Sensor Constant	REV F (0.1 uS/cm)
Common Mode Rejection:	Better than 86 dB
Display:	3 Digit LED
Power Requirements:	6 AA Ni-MH Rechargeable Batteries
Battery Operating Life:	6-8 Hours (cont) - 4-6 Weeks (intermittent)
Housing:	IP54

OPTIONS: Other meter ranges available upon request.
Connectors.
Cell Test Resistor (CTR).
Available range per contract requirements



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