

MARTEK INSTRUMENTS INC. MANUFACTURERS OF WATER QUALITY INSTRUMENTATION



...for accurate, continuous, in situ monitoring of multiple ultrapure water quality parameters

- Autoranging conductivity measurements
- Autoranging dissolved oxygen measurements (0-20 ppm, 0-2 ppm, 0-20 ppb, 0-20 ppb)
- User-selectable temperature compensiton formulas for conductivity
- Solution compensation for both conductivity and pH
- Digital calibration and password protection
- Simultaneous RS232C digital and userselectable 0-1 or 0-5 volt, and 4-20 mA analog outputs
- · Reliable, easy-to-maintain sensor technology

The Martek Mark 24 Ultrapure Water Quality Analyzer provides laboratory accuracy in a multi-channel, multi-parameter on-line instrument for continuous monitoring of high purity water quality. Designed to provide maximum flexibility and value, the Mark 24 provides real-time measurement of up to four separate parameter inputs to permit custom configurations for a variety of process applications. Data is displayed in direct engineering units on a large back-lit display while both digital and analog output signals are available for external recording equipment and control devices.

Designed to withstand harsh environments, the Mark 24 utilizes protected circuitry and a unique power supply to minimize electrical noise and interference associated with process systems.

The ability to collect, process, and transmit real-time data make the Mark 24 ideal for high purity processes in nuclear and highperformance fossil fuel power plants; condensate polishing systems and demineralizers; semiconductor and pharmaceutical manufacturing plants; and other industrial applications.

MARTEK MARK 24 SPECIFICATIONS

Parameter	Range	Resolution	Accuracy	Sensor Type
Temperature	0 to100°C	0.01°C	±0.10°C	Thermolinear array
Conductivity	0 to 2.0000µS / cm 0 to 20.000µS / cm	0.0001µS / cm 0.001µS / cm	±0.001µS / cm ±0.01µS / cm	2-element cell Type 316 SS
	0 to 20.000µS / cm 0 to 200.00µS / cm	0.001µS / cm 0.01µS / cm	±0.01µS / cm ±0.1µS / cm	
	0 to 200.00µS / cm 0 to 2000.0µS / cm	0.01µS / cm 0.1µS / cm	±0.1µS / cm ±1µS / cm	
рН	0 to14 pH	0.01 pH	±0.1 pH	Combination glass electrode with double
ORP	±1400 mV	±1.0 mV	±10.0 mV	junction reference
Dissolved Oxygen	0 to 20 ppm 0 to 2 ppm 0 to 200 ppb 0 to 20 ppb	0.01 ppm 0.001 ppm 0.1 ppb 0.01 ppb	±0.1 ppmGalvanic cell with±0.01 ppmplatinum-lead electrod±1 ppb±0.1 ppb	
HCI, H_2SO_4 or NaOH	0 to 10% by weight	0.01%	±0.2%	2-element insertion- style cell. Type 316 SS

Power	120 or 240 volts AC, 50 / 60 Hz with fuse protection		
Printer Output	Serial ASCII RS232C and isolated analog output of 0 -1, 0 - 5 volts, or 4 - 20mA DC full scale standard		
Case Dimensions	6.8 inches (17.27cm) width X 4.42 inches (11.23cm) height X 8.60 inches (21.84cm) depth behind front surface panel		
Case Weight	8.0 pounds (3.64 kg)		
Mounting	Hardware supplied for panel mounting		
Construction	NEMA 12 aluminum enclosure coated to MIL SPECS		

ORDERING INFORMATION

P/N		P/N	
184-10	Mark 24 Monitor (four channel)	180-26	ORP Sensor Assembly with preamp
180-21-1	Conductivity Flow-thru Sensor with preamp for	180-27	Dissolved Oxygen Sensor with preamp
	ranges 0 - 2 & 0 - 20 µS / cm	180-28	NaOH (Caustic) Insertion Cell with preamp
180-21-2	Conductivity Flow-thru Sensor with preamp for	180-29	H_2SO_4 (Acid) Insertion Cell with preamp
	ranges 0 - 20 & 0 - 200 µS / cm	180-29H	HCI (Acid) Insertion cell with preamp
180-22	Conductivity Flow-thru Sensor with preamp for	180-51	Type 316 SS Flow Chamber for pH / DO sensor
	ranges 0 - 200 & 0 - 2000 µS / cm		
180-24	pH Sensor Assembly with preamp		

NOTE: All prices FOB Factory and include the following waranties against defects in materials or workmanship: **Analyzer and Preamps-5** years, **Conductivity Sensors-Lifetime**, **Dissolved Oxygen sensors-5 years**. Consult factory for specific warranty information. Specifications and prices subject to change without prior notice.



MARTEK INSTRUMENTS, INC.

P.O. Box 14448 Raleigh, North Carolina 27620 USA Phone: (800) 628-8834 or (919) 790-2371 Fax: (919) 790-2375 www.martekinstruments.com Email: info@martekinstruments.com