

## 3045 DISSOLVED COPPER ANALYZER

**Waltron's 3045 Dissolved Copper Analyzer is the most advanced instrument available on the market today for online measurement of dissolved copper.**

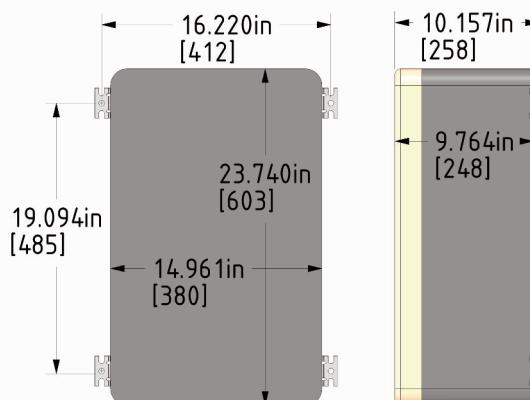
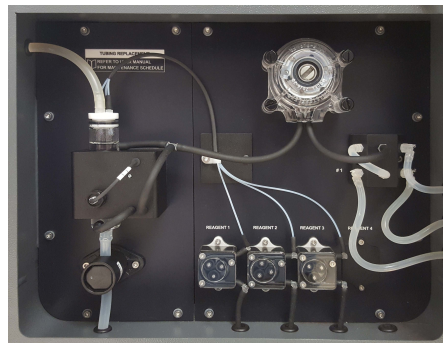
The 3045 stands alone as capable of delivering the most accurate and precise results for ultra-pure water applications.



### FEATURES

- Accurate and wide-range analysis**
- Multi-stream available**
- Fast loop reservoir**
- Adjustable cycle and calibration frequency**
- Automatic calibration and validation (QA/QC)**
- Compact design**
- Color touchscreen display**
- Grab sample capability**
- Internal datalogger**
- Low reagent level alarm**
- Automatic start/stop based on sample flow detection**
- Minimal analyzer maintenance**

### Wet Section



See reverse side for specifications.

## 3045 DISSOLVED COPPER ANALYZER | GENERAL SPECIFICATIONS

### PERFORMANCE

<b>Range</b>	0-100ppb, 0-3ppm
<b>Accuracy</b>	+/- 2% of full scale
<b>Reproducibility</b>	+/- 2% of reading
<b>Analysis Time</b>	10 min, batch process
<b>Sampling Frequency (Cycle Time)</b>	One reading every 15 mins, adjustable
<b>Sensor Classification</b>	Colorimetric with glass flowcell and LED source
<b>Power Supply</b>	110-220Vac, 50-60 Hz 80 VA
<b>Humidity</b>	Up to 90% not condensable
<b>Ambient Temperature Range</b>	10-45°C analyzer (50-113°F)
<b>Positioning and Installation Details</b>	Wall mounting, bench supported, or panel mounting (optional)
<b>Alarms</b>	2 or 4 configurable alarm relays
<b>Degree of Protection</b>	IP55 (NEMA 4): Wet section, IP65 (NEMA 4x): Electronics
<b>Required Maintenance</b>	Once a month replenish reagents, Quarterly replace tubing
<b>Reagent Consumption (approximate)</b>	3 reagents, 2L each per month
<b>Materials in Contact with Sample</b>	Glass, Silicone, Plexiglass, Stainless Steel AISI 316
<b>Certification (on request):</b>	Meets low voltage and low electromagnetic compatibility directives
<b>Sample Conditioning Requirements</b>	Filtering between 10 and 60 micron, depending on the matrix, needed only to avoid clogging.
<b>Weight</b>	17 kg (37.5 lbs.)

### SAMPLE DELIVERY OPERATING CONDITIONS

<b>Temperature Range</b>	5-55°C (41-131°F)
<b>Inlet Sample</b>	100-500 ml/min, atmospheric, flexible tubing O.D. 1/4"(6 mm)
<b>Outlet Sample</b>	Atmospheric, waste tubing O.D. 3/8"(9 mm)
<b>PH</b>	3-12

### SIGNAL OUTPUTS

<b>Analog Outputs</b>	4-20mA (galvanic isolator module available as option) or 0-5V
<b>Serial I/O Options</b>	RS232; RS485; MODBUS; PROFIBUS

### OPERATIONAL CALIBRATION

<b>Frequency/Intervals</b>	Recommended: 7 days
<b>Single/Multi Points</b>	Multi-Point: zero and mid range
<b>Matrix Corrections</b>	Yes, sample blank correction
<b>Manual/Automatic</b>	Both

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