

COLOUR ANALYZER

WATER QUALITY
MONITORING
SOLUTIONS

C SERIES



FEATURES & BENEFITS

- Affordable real-time colour monitoring
- Multiple wavelength analyzer with LED technology
- Wastewater to high purity measurement ranges
- Operator friendly, low maintenance design
- Quick and simple optical measurements
- Reagent free operation

OVERVIEW

Real Tech's colour analyzer provides rapid real-time measurement of colour in water or wastewater. Continuous colour monitoring can bring significant value to many applications such as source water monitoring. Designed to meet the needs of many monitoring applications, the series offers multiple sensor path length selections for the desired measurement range.

MEASUREMENT PRINCIPLE

The colour analyzer utilizes visible light at specific wavelengths (depending on the colour monitoring requirements) to measure hues of yellow in the water. Compounds that may interfere with measurement, such as particles, are compensated for using an additional reference wavelength when needed. Benefiting from Real Tech's innovative LED technology, accurate and stable measurements are obtained over time with minimal maintenance or operator intervention.

MUNICIPAL DRINKING WATER
MUNICIPAL WASTEWATER
INDUSTRIAL PROCESS WATER
INDUSTRIAL WASTEWATER

REALTECH
INC.



COLOUR ANALYZER SPECIFICATIONS

CHARACTERISTIC	TECHNICAL DATA	
Model Series	2000 series	4000 series
Path Length	1, 2, 4, 8 mm	25, 50, 100, 150 mm
Parameters	Colour	
Range	Depends on model selected. Refer to range chart.	
Accuracy	± 0.5% FS	
Units	PCU, mg/L Pt-Co or HU (hazen units)	
Sampling Time	10 seconds	
Calibration	Factory parameter calibration allows field adjustment as required.	
Cleaning	In-situ chemical cleaning makes cleaning quick and easy. Automatic chemical cleaning is optional.	
Self-Diagnostics	Detection and diagnosis of internal system fault	
Operator Interface	Five push buttons to control a comprehensive hierarchical menu system	
Display	4 line x 20 character back-lit LCD with LED alarm	
Alarms	Dry contact terminals allow for operator configurable alarms for: high and low set points, low lamp output, leak detected, system fault, etc.	
Humidity Control	Humidity sensor with large plug-in regenerating desiccant system	
Outputs	Self-powered 4-20 mA, RS232 serial for PC	
Wavelength	Multiple visible (VIS) wavelengths. Application dependent.	
Light Source	LED	
Flow Rate	300-1000 mL/min	
Pressure Rating	20 PSI maximum	
Fluid Connections	1/4" OD tube push-in fittings	
Wetted Materials	Kynar, Polyethylene, Quartz, SS 316L, Viton	
Electrical	24VDC 40W power adapter (accepts 90-250VAC 50/60Hz)	
Ambient Temp.	0 to 45°C (32 to 113°F)	
Water Temp.	0 to 90°C (32 to 194°F) at 21°C (69.8°F) Ambient temperature	
Storage Temp.	-20 to 60°C (-4 to 140°F)	
Enclosure	NEMA 4X, wall mountable	
Weight	22 lb	24 lb
Dimensions	17"H x 14.25"W x 7.5"D	17.75"H x 15.5"W x 6.75"D
Warranty	2-year limited warranty (Extended care packages available)	
Analyzer Upgrades	Cellular Modem, Dual Transmitter	

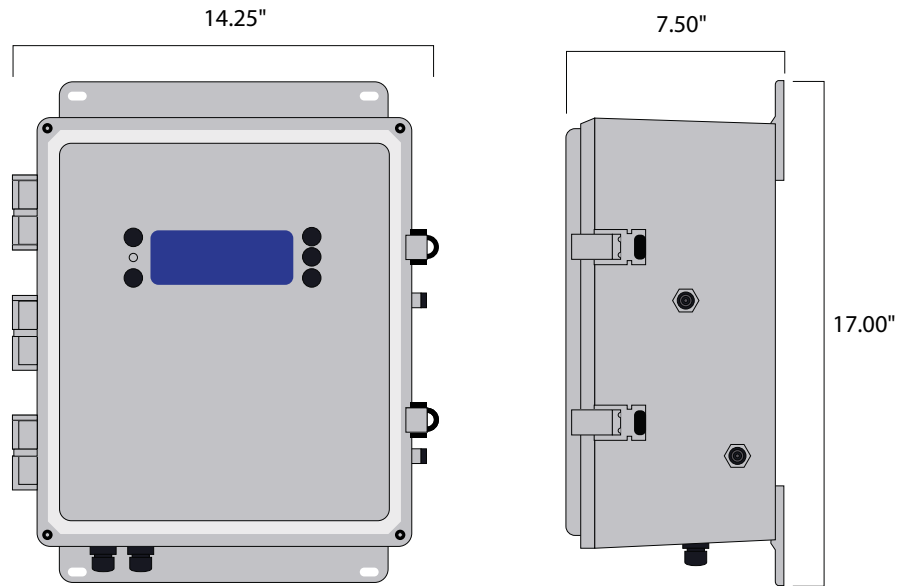
* Technical Specifications are subject to change without notice.

* Water temperature range based on material compatibility only. Contact Real Tech to verify application.

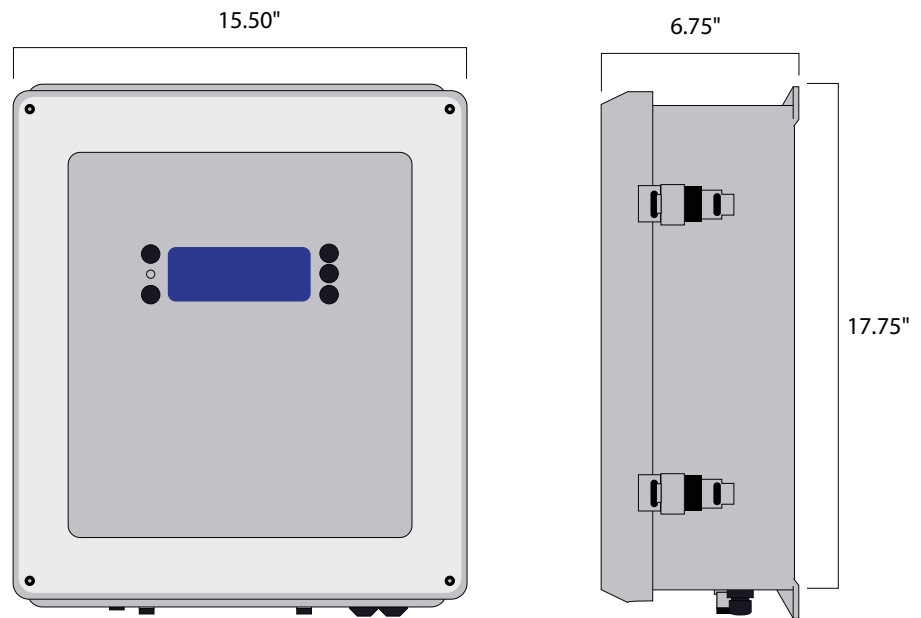
DIMENSIONS

The colour analyzer is a bypass cabinet instrument installed directly on a wall, railing or system backboard. Sample is supplied to the analyzer from either a pressurized source or from an open-channel using an accessory pumping system.

DIMENSIONS FOR C2000 SERIES MODELS



DIMENSIONS FOR C4000 SERIES MODELS



ANALYZER SELECTION

MODEL SERIES	DESCRIPTION
2000	Ideal for general water monitoring applications
4000	Ideal for high purity water monitoring applications

ANALYZER MODELS & RANGE

Includes colour analyzer, flow cell, calibration bottle, dehumidifier and standard power supply.
Automatic chemical cleaning system and additional accessories sold separately.

MODEL #	PATH LENGTH	COLOUR (PCU)
C2010	1 mm	0 - 10,000
C2020	2 mm	0 - 5,000
C2040	4 mm	0 - 2,500
C2080	8 mm	0 - 1,250
C4025	25 mm	0 - 400
C4050	50 mm	0 - 200
C4100	100 mm	0 - 100
C4150	150 mm	0 - 66

* Stated ranges are based on testing in deionized water. Interfering substances that may be present in the water may reduce the upper end of the measuring range.
Please contact Real Tech to confirm model selection.

ACCESSORIES

PRODUCT #	NAME	DESCRIPTION
UVT-078130	Real Clean System I	Automatic chemical cleaning system for use with 2000 series models
UVT-118010	Real Clean System II	Automatic chemical cleaning system for use with 4000 series models
UVT-079121	Pump Clean System I	Self-priming pump and automatic chemical cleaning for use with 2000 models
UVT-129122	Pump Clean System II	Self-priming pump and automatic chemical cleaning for use with 4000 series models
UVT-078120	Dual Feed I	Dual feed upgrade to monitor two water sample lines with one C series analyzer

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