

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

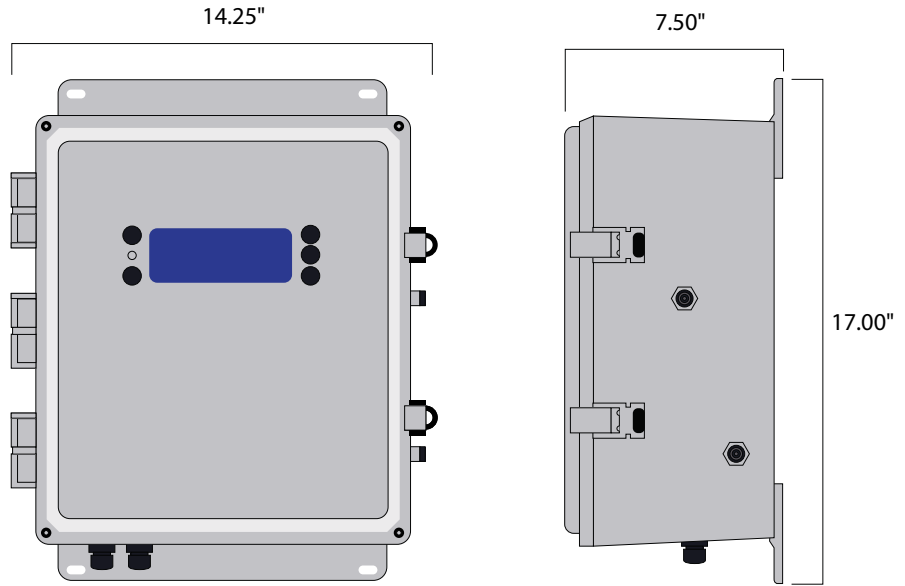
MODEL	C2010	C2020	C2040	C2080	C4025	C4050	C4100	C4150
Path Length	1 mm	2 mm	4 mm	8 mm	25 mm	50 mm	100 mm	150 mm
Parameters	Colour							
Range	Depends on model selected. Refer to range chart on next page.							
Accuracy	± 0.5% FS							
Units	PCU, Pt-Co or HU (hazen units)							
Sampling Time	10 seconds							
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							
Electrical	24VDC 40W power adapter (accepts 90-250VAC 50/60Hz)							
Storage Temp.	-20 to 60°C (-4 to 140°F)							
Operating Temp.	0 to 45°C (32 to 113°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	High Temp. Upgrade I, High Temp. Upgrade II, Cellular Modem, Dual Transmitter							

* Technical Specifications are subject to change without notice.

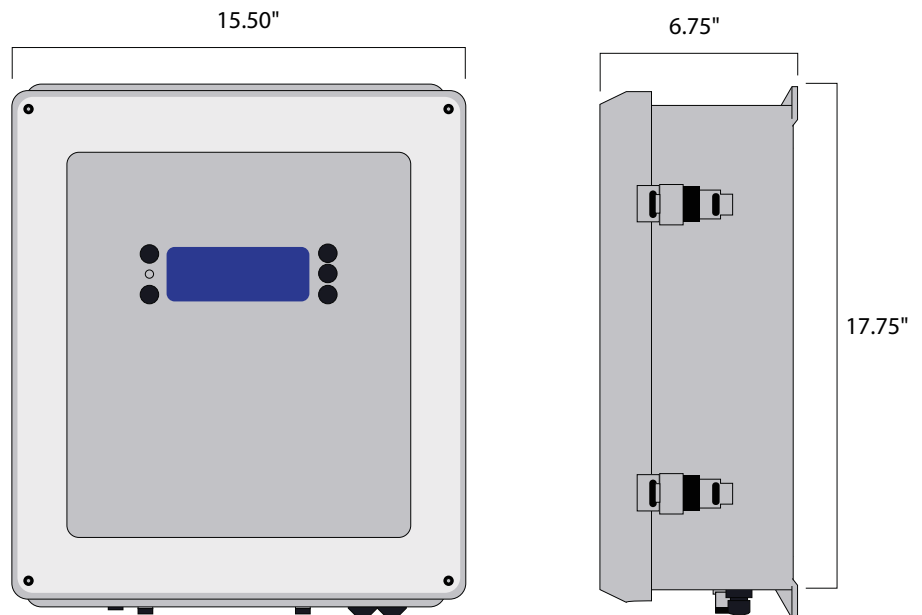
DIMENSIONS

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 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 approximate, dependent on industry, site and application - 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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