MULTI-COLOUR PROBE





FEATURES & BENEFITS

- · Affordable real-time multi-colour monitoring
- Multiple wavelength sensor uses patent-pending technology for superior measurement performance
- Robust submersible probe with titanium or stainless steel housing
- Operator friendly, low maintenance design
- · Reagent free optical measurements
- In accordance with ISO7887:2011 Method B
- · Simple to install and operate

REAL-TIME MONITORING SOLUTION

Multi-Colour Probe

Real Tech's robust submersible Multi-Colour Probe provides affordable real-time measurement of multiple colours in water or wastewater. The probes rugged body is built to withstand harsh environments, with titanium or stainless steel options. Designed to meet the needs of many monitoring applications, the MCA series offers multiple path length selections for the desired measurement range.

Controllers and Accessories

Our innovative modular product platform ensures our clients gain the real-time water quality monitoring system that meets their specific demands and budget. With multiple controller and accessory options available such as automatic compressed air cleaning systems that lower maintenance while improving system performance, Real Tech provides a total solution for all of your unique water quality monitoring needs.

Liquid Ai Compatible

Our Liquid Ai data services complement our real-time water quality monitoring systems. Our Remote Monitoring platform is a powerful data management and visualization tool that enables access to data anywhere, anytime.

MEASUREMENT PRINCIPLE

Real Tech's Multi-Colour Probe utilizes patent-pending technology to provide superior measurement performance across multiple wavelengths of light using LEDs. The probe measures multiple colours in the water in accordance with ISO7887:2011 Method B. Compounds that may interfere with colour measurement, such as particles, are compensated for using an additional reference wavelength. Real Tech's multi-colour probe is advancing water and wastewater management.







MULTI-COLOUR PROBE SPECIFICATIONS

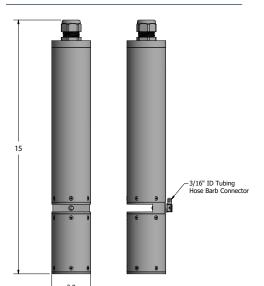
CHARACTERISTIC	TECHNICAL DATA		
Model	MCA-X	MCA-S	
Path Length	1, 2, 4, 10 mm		
Parameters	Colour		
Range	Depends on model selected. Refer to range chart.		
Accuracy	± 0.5% full scale		
Units	1/m		
Sampling Time	10 seconds		
Calibration	Factory calibrated. Field adjustment of calibration is possible.		
Cleaning	Automatic compressed air or pressurized water cleaning with optional Probe Clean System		
Self-Diagnostics	Detection and diagnosis of internal system fault		
Alarms	Continuous detection of leaks, lamp output, humidity, temperature and electrical fault		
Humidity Control	Humidity sensor with desiccant pack		
Wavelengths	Visible (VIS)		
Light Source	LED		
Electrical/Comm.	From controller		
Pressure Rating	15 PSI		
Operating Temp.	0 to 45°C (32 to 113°F)		
Housing Material	Titanium (Grade 2)	Stainless steel (SS 316)	
Wetted Materials	Titanium, Epoxy, Sapphire, SS 316, Viton	Epoxy, Sapphire, SS 316, Viton	
Weight	1.5kg (3.31lb)**	2.5kg (5.25lb)**	
Ingress Protection Type	IPX8		
Dimensions	15" H x 2.0" Diameter		
Warranty	2-year limited warranty (Extended care packages available)		

^{*} Technical Specifications are subject to change without notice.

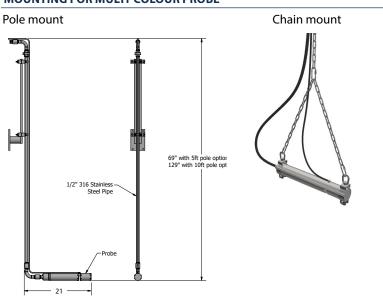
DIMENSIONS

The multi-colour probe is a submersible instrument installed directly in-situ using a pole mounting kit or chain mount.

DIMENSIONS FOR MULTI-COLOUR PROBE



MOUNTING FOR MULTI-COLOUR PROBE



^{*} Operating (water) temperature absolute maximum 55°C (131°F). Instrument performance reduced when operating outside recommended operating range. Contact Real Tech to verify application.

^{**} Weight does not include cable. Cable weight: 0.70kg (1.55lb).

PROBE MODELS & RANGE

Includes titanium (-X) or stainless steel (-S) multi-colour probe sensor and 35 feet of communication cable. Controller, mounting kit and cleaning system sold separately.

MODEL#	PATH LENGTH	COLOUR (1/m)
MCA-X2010 / MCA-S2010	1 mm	5 - 1000
MCA-X2020 / MCA-S2020	2 mm	2.5 - 500
MCA-X2040 / MCA-S2040	4 mm	1.2 - 250
MCA-X2100 / MCA-S2100	10 mm	0.5 - 100

^{*} 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.

CONTROLLERS

Controllers include proprietary inputs for Real Tech sensors and accessories.

PRODUCT#	NAME	DESCRIPTION
S-229005	Real Controller Lite	Wall mounted controller with 4-line x 20-character back lit LCD display. Includes modbus RTU (RS485)
S-169000	Real Controller	Wall mounted controller with 4-line x 20-character back lit LCD display. Includes modbus RTU (RS485), 1 channel of 4-20 mA out and digital I/O module
S-11TPC	Real Controller Pro	Wall mounted controller with 12.1" colour LCD touch panel PC interface (PC inside cabinet model). Includes Modbus TCP
S-11TPCD	Real Controller Pro	Wall mounted controller with 12.1" colour LCD touch panel PC interface (PC external on door model). Includes Modbus TCP

ACCESSORIES

PRODUCT #	NAME	DESCRIPTION
S-228070	Probe Clean System	Cleaning valve module requires on-site compressed air or pressured water for automatic probe cleaning
S-228080	Compressed Air System	Compressor for air cleaning when compressed air not available on-site
S-219081	Probe Mounting Kit I	Provides secure mounting attachment for titanium or stainless steel probe to a tank wall or open channel wall. No pole included.
S-219082	Probe Mounting Kit II	Provides secure mounting attachment for titanium or stainless steel probe to a tank wall or open channel wall. 5' pole included.
S-219083	Probe Mounting Kit III	Provides secure mounting attachment for titanium or stainless steel probe to a tank wall or open channel wall. 10' pole included.
S-229085	Chain Mount	Stainless steel chain for mounting probe in open channel

