

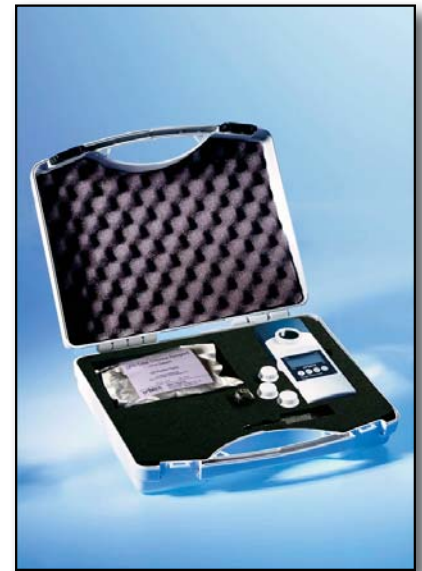
# Colorimeter SC400

The Colorimeter SC400 is a rugged, waterproof, single parameter colorimeter for laboratory and field testing. The SC400 is available in four parameters: Chlorine (free and total), Chlorine Dioxide, Ammonia and Fluoride. This portable instrument uses the popular Powder Pack reagent chemistries and can be taken wherever residual values are monitored. The colorimeter features a large backlit display, a real-time clock, datalogging features and a user calibration mode which allows the user to calibrate against prepared standards.

The Colorimeter is a convenient tool that can be used to ascertain real time chlorine, chlorine dioxide, ammonia or fluoride values in a sample stream when commissioning on-line monitors or performing routine calibration checks.

Using the colorimeter is easy – just place the sample cell in the meter and press zero/test key. A simple zero calibration is performed prior to testing. Most reagents are provided in easy to use Powder Packs. Instrument measurements eliminate subjective color interpretations.

All colorimeter kits come in a handy hard plastic carrying case that includes: colorimeter, 9V battery, sample cells, instructions and reagents (except fluoride).



- ◆ Waterproof - floats in water
- ◆ Uses Powder Pack™ reagents
- ◆ Datalogging features
- ◆ User calibration
- ◆ Hard plastic carrying case
- ◆ Direct reading of chemical
- ◆ Large backlit display
- ◆ Easy 4 button operation
- ◆ CE mark



## Colorimeter Kit Ordering Information

Parameter	Operating Range (mg/l)	Part Number
Ammonia	0.01 – 0.50	24778
Chlorine (Free & Total)	0.01 – 2.00, 0.1 – 8.0	24775
Chlorine Dioxide	0.01 – 3.8	24776
Fluoride	0.05 – 2.0	24777

## Reagent Ordering Information

Chlorine - *provided with unit	Part Number
DPD Free Chlorine Reagent Powder Packs, 100 tests*	24779
DPD Free Chlorine Reagent Powder Packs, 1000 tests	24780
DPD Total Chlorine Reagent Powder Packs, 100 tests*	24783
DPD Total Chlorine Reagent Powder Packs, 1000 tests	24784
Chlorine Dioxide - *provided with unit	Part Number
DPD Free Chlorine Reagent Powder Packs, 100 tests*	24779
Glycine Tablets, 100 tests*	24788
Fluoride – Due to limited shelf life, reagents not provided with unit. Must be ordered separately.	Part Number
SPADNS Reagent, 250 ml (2 ml used for every test)	24789
Fluoride Standard 1 ppm, 16 oz. (used for calibration)	24790
Ammonia – * provided with unit	Part Number
Ammonia Nitrogen Reagent Set, 50 tests*	24787

## Sample Cells Ordering Information

Provided and used with all units	Part Number
Sample Cell, Round Glass, 24 mm with lid, 12 pack	24871
Provided and used for high range chlorine unit only	Part Number
Sample Cell, Round Plastic, 10 mm with lid, 5 pack	24872

# Specifications - Colorimeter SC400

**Instrument Type:** Single wavelength colorimeter preprogrammed for direct reading of chemical

**Light Source:** LED  
Chlorine: Filter ( $\lambda = 528\text{nm}$ )  
Chlorine Dioxide: Filter ( $\lambda = 528\text{nm}$ )  
Ammonia: Filter ( $\lambda = 660\text{nm}$ )  
Fluoride: Filter ( $\lambda = 580\text{nm}$ )

**Measuring Tolerance:**  
Chlorine: 0 - 1 mg/l: +/- 0.05 mg/l;  
> 1 - 2 mg/l: +/- 0.1 mg/l  
2 - 3 mg/l: +/- 0.2 mg/l  
3 - 4 mg/l: +/- 0.3 mg/l  
4 - 8 mg/l: +/- 0.4 mg/l

Chlorine Dioxide: 0 - 1.9 mg/l: +/- 0.1 mg/l;  
> 1.9 - 3.8 mg/l: +/- 0.2 mg/l

Ammonia: 0.01 - 0.5 mg/l: +/- 0.05 mg/l

Fluoride: 0.05 - 2.0 mg/l: +/- 0.1 mg/l

**Power Supply:** 9V Battery, 600 tests without backlight (40 hours operation)

**Low Battery:** Indication upper left portion of display

**Auto Shut-off:** 5 minutes after last key press

**Display:** Backlit LCD, backlight turns off automatically during measurement

**Data Storage:** 16 Data Sets includes: test number, year, month and day, hour and minute, test method and result. Results saved automatically.

**Dimensions:**  
Colorimeter: 6.7 x 2.6 x 1.8 in (170 x 65 x 45 mm)  
Carrying case: 13.5 x 11.0 x 3.25 in (343 x 279 x 83 mm)

**Weight:**  
Colorimeter: 0.44 lb (200 g)  
Case & colorimeter: 4 lbs (1.81 kg)

**Sample Cells:** 3 x 24 mm supplied for all colorimeters  
3 x 10 mm supplied for chlorine only, used for high range

**Operation:** 4 button

**Clock:** Real time; set time and date

**Calibration:** User calibration and factory calibration reset

**Zero/Test Setting:** Held in memory as long as unit is powered on. Need to zero again if unit is powered down or mode is changed.

**Operating Conditions:** 41-104°F (5-40°C), 30-90% relative humidity

**Compliance:** CE Mark  
Method is EPA compliant for chlorine, chlorine dioxide and fluoride

**Enclosure:** Waterproof, floats in water



## Warranty and Capability

Severn Trent Services offers a limited two (2) year warranty from the date of shipment from our factory. Severn Trent Services is ISO 9001 certified to provide quality and precision materials. Disinfection technologies, water quality monitors and instrumentation for water and wastewater are areas of specialization. Over 35 years of industrial and municipal application experience in the water and wastewater industries is incorporated into the equipment design to provide high quality comprehensive solutions for the global market.

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