## Colorimeter Series

Sulfide 1 Range(s): 0-1.00 ppm S <sup>2-</sup>				
Procedure	<ul> <li>Note: When testing multiple samples simultaneously, a separate sample cell with an unreacted sample of the water tested must be used to zero the colorimeter. Please note that varying the test procedure from the original can affect the precision of the test.</li> <li>1. Turn on the Colorimeter.</li> <li>2. Select a test menu (ALL TESTS, RECENT TESTS, or FAVORITES) containing Sulfide 1 using ◄►.</li> <li>3. Select Sulfide 1 using ▲▼; then press ENTER <sup>(©)</sup>.</li> <li>4. Rinse and fill 25 mm sample cell to 10 mL mark with sample; then cap.</li> </ul>	<ol> <li>Insert sample cell into sample cell compartment. Align marks per User's Manual.</li> <li>Select ZERO using ◀►; then press ENTER ⑤. Zero will be displayed.</li> <li>Remove sample cell from sample cell compartment; then remove cap.</li> <li>Add 0.5 mL Sulfide 1 - Reagent A. DO NOT MIX.</li> <li>Add 3 drops Sulfide 1 - Reagent B; then cap and swirl to mix thoroughly.</li> <li>Select TIMER using ◀►; then press ENTER ⑥.</li> </ol>	<ol> <li>Select START using &lt;&gt;; then press ENTER ●. (A 1-minute [01:00] countdown will begin.)</li> <li>When the timer beeps, remove cap and add 1.0 mL Sulfide 1 - Reagent C; then cap and swirl to mix thoroughly.</li> <li>Insert sample cell into sample cell compartment. Align marks.</li> <li>Select EXIT using &lt;&gt;; then press ENTER ●.</li> <li>Select READ using &lt;&gt;; then press ENTER ●. The instrument will read the sample and the result will be displayed.</li> </ol>	
nterferences	<ul> <li>Strong Oxidizers – positive interference</li> <li>Strong Reducing Agents – negative interference</li> <li>Nitrite – negative interference</li> <li>The following analytes were tested to the levels listed and found not to cause any interference up to the specified values:</li> <li>Alkalinity, Total (CaCO<sub>3</sub>) – 1000 ppm</li> <li>Azole (BT) – 5 ppm</li> <li>Azole (TT) – 5 ppm</li> </ul>	Bromine – 5 ppm Chloride – 1000 ppm Chlorine – 5 ppm Copper – 5 ppm Fluoride – 10 ppm Hardness, Calcium (CaCO <sub>3</sub> ) – 1000 ppm Iron, Ferric – 10 ppm Iron, Ferrous – 10 ppm Molybdate – 10 ppm Nitrate – 2000 ppm	Nitrite – 2000 ppm Phosphate – 100 ppm Phosphonate – 20 ppm Polymer – 1000 ppm Polyphosphate – 5 ppm Silica – 150 ppm Sulfate – 1000 ppm Sulfite – 100 ppm Zinc – 5 ppm	

	Instruction #5438		
Test Method	Methylene Blue		
	A ferric chloride-catalyzed reaction between sulfide and DPD produces a methylene blue-colored complex that is proportional to the concentration of sulfide in a sample.		
Estimated Detection Limit	0.01 ppm S <sup>2-</sup>		
Precision	Using a single lot of reagent and a standard solution of 0.5 ppm S <sup>2-</sup> , an individual analyst obtained a standard deviation with the instrument of $\pm$ 0.01 ppm S <sup>2-</sup> .		
Application	Industrial Water		
Ordering Info	Reagent Pack K-8025 Sulfide 1 Formulated for exclusive use with Taylor's TTi <sup>®</sup> Colorimeter.		
	Reagent Pack Components		
	R-8025A Sulfide 1 - Reagent A		
	R-8025B Sulfide 1 - Reagent B		
	R-8025C Sulfide 1 - Reagent C		

