# Instruction Sheet

DOC302.53.00755

## CDC401-01 or CDC401-03 Probe

## Safety

To ensure that the protection provided by this equipment is not impaired, do not use or install this equipment in any manner other than that specified in this document.

| | |
|---|---|
|  | This symbol, if noted on the instrument, references the instruction manual for operation and/or safety information. |
|  | Electrical equipment marked with this symbol may not be disposed of in European public disposal systems after 12 August of 2005. In conformity with European local and national regulations (EU Directive 2002/96/EC), European electrical equipment users must now return old or end-of life equipment to the Producer for disposal at no charge to the user.<br>***Note:*** *For return for recycling, please contact the equipment producer or supplier for instructions on how to return end-of-life equipment, producer-supplied electrical accessories, and all auxiliary items for proper disposal.* |

## Overview

Figure 1shows the CDC401-01 or CDC401-03 Probe, a 4-pole conductivity probe, equipped with either a 1- or 3-meter cable. The probe is designed for fast, accurate measurement of conductivity, salinity, resistivity, or total dissolved solids (TDS) in wastewater, drinking water, and general applications.

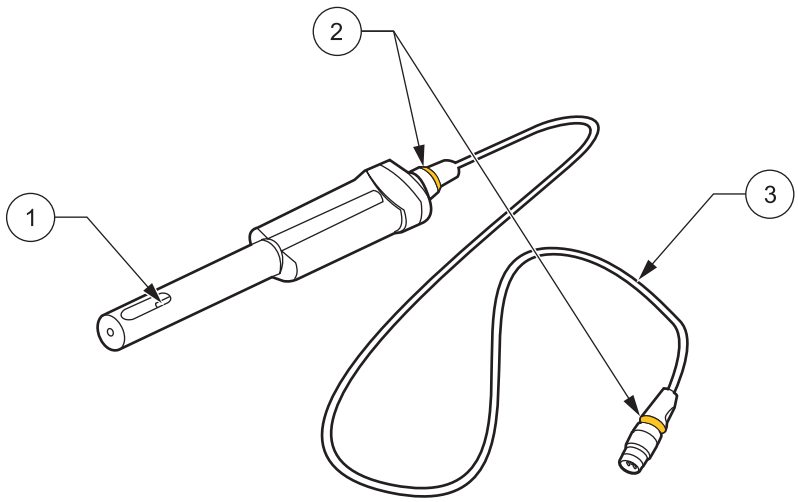


Figure 1CDC401-01 or CDC401-03 Probe

| | | | |
|---|---|---|---|
| **1** | Sensor Array, including Temperature Sensor and 4-pole Conductivity Sensor | **3** | 1- or 3-meter Cable |
| **2** | Color-coded clip locations | | |

Each electrode is supplied with color-code clips for easy identification. There are two each of five colors (black, yellow, light green, light blue, and magenta), one for the electrode and one for the cable connector.

## Assembly

1. Attach a pair of color-code clips to the electrode and cable connector (Figure 1, item 2).
2. Rinse probe with deionized water prior to use.

## Calibration

For calibration steps, refer to the *HQ Portable Meters User Manual*. The IntelliCAL™ probes store the current calibration and calibration history in the probe memory. It is not necessary to recalibrate when moving a calibrated electrode from one meter to another.

## Maintenance

### General Maintenance

- Between samples, wipe the probe with a clean towel.
- If the connection to the meter is poor, readings may be unstable. To ensure accurate readings, check the connection to the meter.

### Storage

- Between uses, store the probe dry in ambient conditions.

## Specifications

Specifications are subject to change without notice.

| | |
|---|---|
| **Conductivity Range** | 0.01 µS/cm to 200.0 mS/cm |
| **Conductivity Resolution** | 0.0–19.99 µS/cm: 0.01 µS/cm<br>20.0–199.9 µS/cm: 0.1 µS/cm<br>200.0–1999.0 µS/cm: 1.0 µS/cm<br>2.0–19.99 mS/cm: 0.01 mS/cm<br>20.0–200.0 mS/cm: 0.1 mS/cm |
| **Conductivity Accuracy** | ± 0.5% of Reading |
| **TDS Range** | 0 to 50,000 mg/L as NaCl |
| **TDS Accuracy** | ± 0.5% of Reading |
| **TDS Resolution** | 0.0–199.9 mg/L: 0.1 mg/L<br>200.0–1999.0 mg/L: 1.0 mg/L<br>2.0–19.99 g/L: 0.01 g/L<br>20.0–50.0 g/L: 0.1 g/L |
| **Salinity Range** | 0 to 42 ppt (‰) |
| **Salinity Accuracy** | ± 0.1 ppt (‰) |
| **Salinity Resolution** | 0.01 ppt (‰) |
| **Temperature Range** | –10.0 to 110.0 ºC |
| **Temperature Accuracy** | ± 0.3 ºC |
| **Warranty** | Sensor is covered by a one-year warranty. |

**FOR TECHNICAL ASSISTANCE, PRICE INFORMATION AND ORDERING:**
In the U.S.A. – **Call toll-free 800-227-4224**
Outside the U.S.A. – **Contact the HACH office or distributor serving you.**
On the Worldwide Web – **www.hach.com**; E-mail – **techhelp@hach.com**

**HACH** COMPANY
WORLD HEADQUARTERS
Telephone: (970) 669-3050
FAX: (970) 669-2932



January 2006, Edition 3