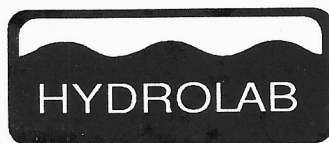


SCOUT[®] 2

Display Unit

Operating Manual *January 1994*



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Scout® 2 Display Manual
ADDENDUM
December 1993

(upgrades Scout 2 Display Operating Manual to Revision C)

This addendum updates the Scout 2 manual for the addition of turbidity. It assumes knowledge of the Scout 2 manual. The section numbers reference the pertinent section of the manual which is modified or updated.

PART ONE: INTRODUCTION

New Firmware

All Scout 2 Displays shipped after December 15, 1993 will contain firmware revision 2.10 or higher. The firmware revision number is shown on the start-up screen:

Scout 2, Ver 2.10
(C)1991, Hydrolab

The new firmware provides compatibility with Hydrolab's DataSonde 3 Multiprobe Logger with firmware revisions 1.40 and higher, H20 Multiprobes with firmware revisions 2.00 and higher, and Reporter Multiprobes with firmware revisions 1.04 and higher. Older H20s and DataSonde 3 multiprobes will remain compatible as well.

Generally, the Scout 2 firmware has been modified to support the addition of the turbidity sensor to the DataSonde 3 and the H20 Multiprobes.

PART TWO: DATA DISPLAY & MENUS

When the Scout 2 is attached to a multiprobe capable of operating a turbidity sensor, the turbidity reading will appear on the Alternate Data Screen in the lower left corner. The reading will be suffixed with an "ntu" unit code and replaces the dissolved oxygen (% saturation) reading.

The dissolved oxygen (mg/l) position on the Main Data Screen will now be either the mg/l reading (no unit code suffix) or the percent saturation ("% " unit code suffix) reading depending on the multiprobe setup options.

The Data Status Screen has been modified to show the alphanumeric flags provided by the multiprobe in the screen positions occupied by the readings. For example, if your pH reading is uncalibrated, then pressing the down-arrow key will show an asterisk (*) in the pH location on the screen. The alphanumeric flags for the six parameters on the Main Data Screen will also appear in the appropriate locations. To view the flags for the parameters on the Alternate Data Screen, just press Screen/Escape key.



Press the down-arrow key again to return to the normal data display or the normal data display will return automatically after a few seconds.

The new alphanumeric flags are interpreted as follows:

- ok Data is ok (nothing to report)
- N/A The appropriate sensor has not been installed or has been disabled
- ? Turbidity sensor error (Refer to the multiprobe Operating Manual)
- ! Warm-up batteries are enabled
- \$ Stirrer has been disabled (DataSonde 3 only)
- @ Parameter not compensated, turbidity neph only

Calibrate Menu

Turbidity (Y) has been added to the Calibrate menu:

pCS%OYRTA: Turb

If you have an older multiprobe that does not support turbidity, then you will see the following message if you try to calibrate turbidity:

Menu not available

Variables Menu

1. Turbidity

Turbidity (Y) has been added to the Variable menu:

TCODSY: Turbidity

This menu allows you to modify the turbidity operating mode as outlined in your multiprobe Operating Manual. If your multiprobe does not support turbidity, you will get the "Menu not available" message.

2. Dissolved Oxygen

The dissolved oxygen Variable menu has been modified to allow you to select the type of dissolved oxygen reading to display on the Main Data Screen, since the turbidity reading replaces the dissolved oxygen percent saturation reading on the Alternate Data Screen. You will not see this menu if your multiprobe does not support turbidity since both dissolved oxygen readings are available simultaneously.

