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RESEARCH

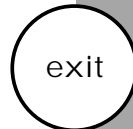
AR50


Dual Channel pH/Ion/Conductivity Meter

System Setup

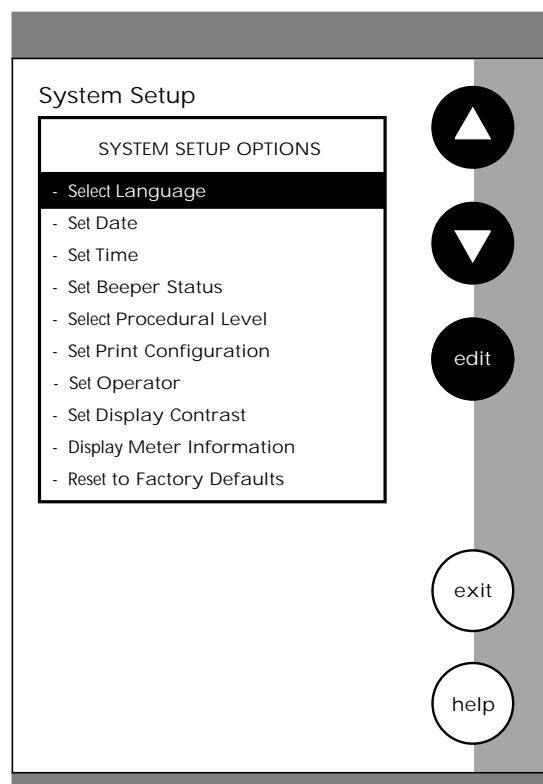
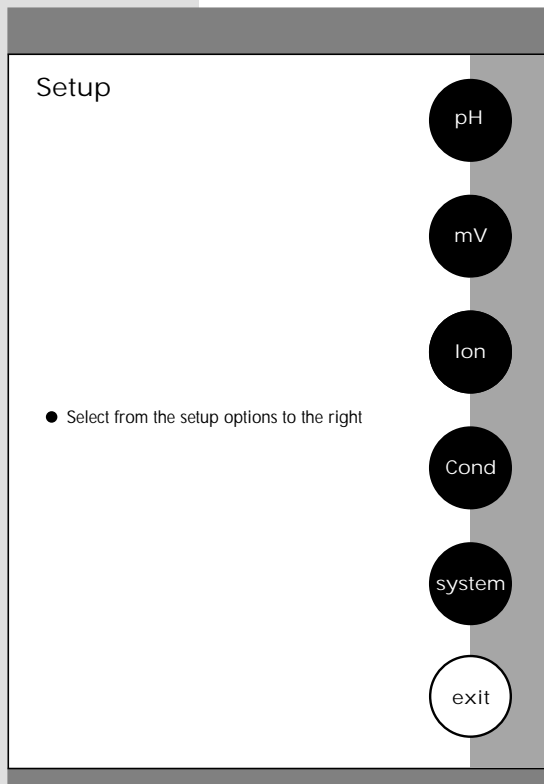
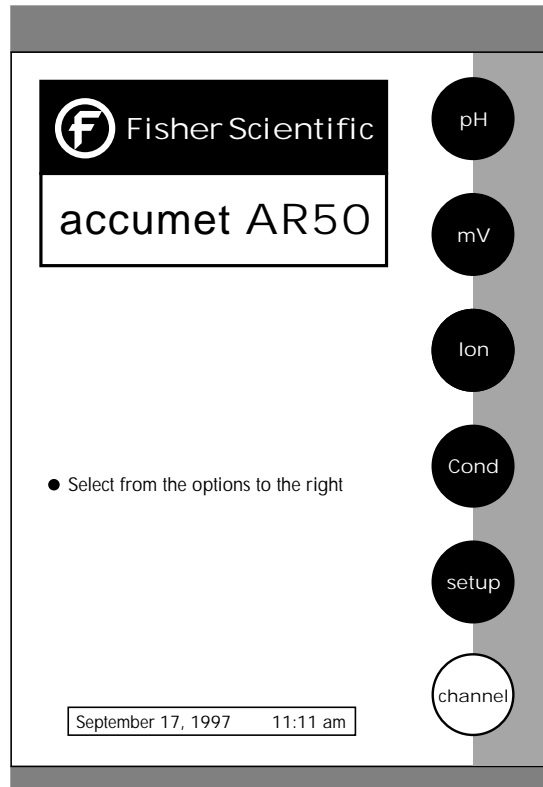
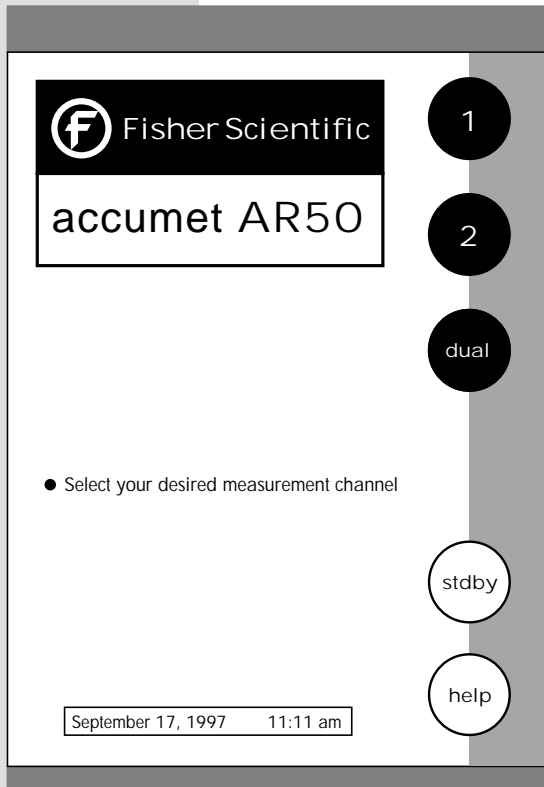
SYSTEM SETUP OPTIONS

- Select Language
- Set Date
- Set Time
- Set Beeper Status
- Select Procedural Level
- Set Print Configuration
- Set Operator
- Set Display Contrast
- Display Meter Information
- Reset to Factory Defaults



 Fisher Scientific

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The system setup function allows you to customize the meter display options to meet your personal preference. Once set, these will rarely need to be changed.

To access System Setup

- 1** Touch anywhere on the Standby screen.
- 2** Touch 1 or 2 on the Channel screen to access either channel.
- 3** Touch setup on the Main screen.
- 4** Touch system on the Setup screen.

The System setup options are now displayed on the screen.

To access a System Setup option

- 1** Use the arrow keys to scroll through the setup options and highlight the option to be reviewed.
- 2** Touch edit to view the current status of the selected option.

The following is a detailed description of the System setup option screens.



Remember, HELP is always just a touch of the button away.

Select Language

Current LANGUAGE	English
English	
French	

- Use arrow keys to highlight desired language and then touch enter to accept

Navigation buttons: Up arrow, Down arrow, enter, exit, help

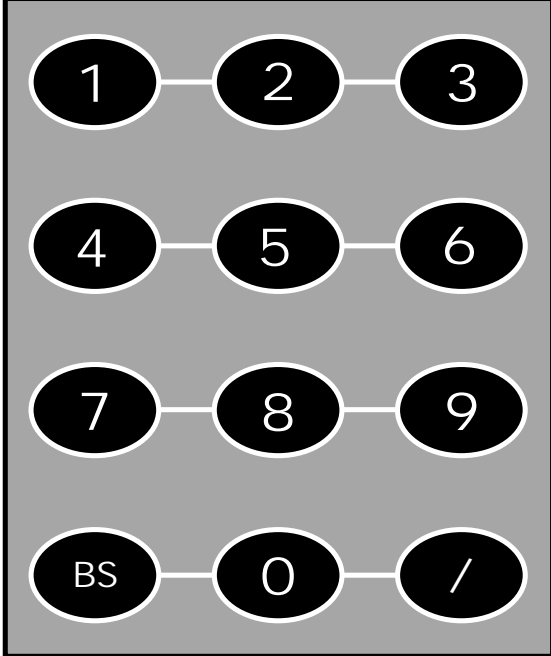
This option allows you to choose the language in which all prompts and directions will appear on the touch screen.

To Select Language

- 1** Access the Select Language screen from the System Setup screen. The current language is displayed on the screen.
 - 2** Use the arrow keys to highlight the desired language.
 - 3** Touch enter to accept the language and return to the System Setup screen.
- OR
- Touch exit to return to the System Setup screen, without making any changes.

Set Date

Current MM/DD/YY	11/11/97
------------------	----------



● Touch clear to delete current date

● Use numeric touchpad to input the new date and then touch enter to accept

enter

D/M/Y

clear

exit

help

This screen can be used to set the present date which will be displayed on the measure screens. This date will also be printed on demand and stored in the data storage center of the meter when data is saved. There are two format options for the date: month/day/year (M/D/Y) or the European format of day/month/year (D/M/Y).

To Set Date

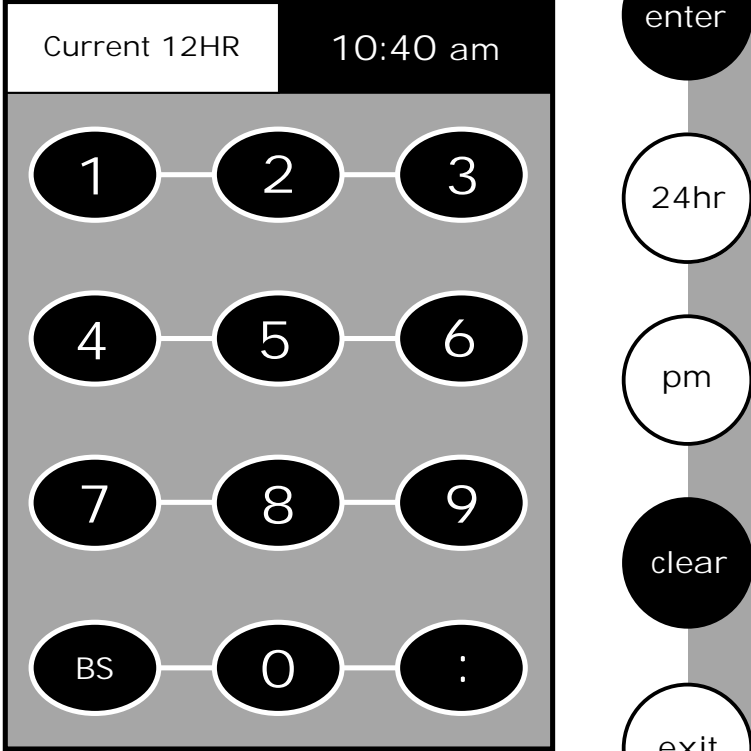
- 1** Access the Set Date screen from the System Setup screen. The current date and numeric keypad are displayed on the screen.
 - 2** Touch clear to delete the current entry.
 - 3** Touch D/M/Y or M/D/Y to set the date format.
 - 4** Use the numeric touch pad to enter the desired date, separating the day, the month and the year by touching the / key on the keypad.
 - 5** Touch enter to accept the date in the current format.
- OR
- Touch exit to return to the System Setup screen, without making any changes.



If you do not use the /, the meter will not accept the date.

Set Time

Current 12HR	10:40 am
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- Touch clear to delete current time setting
- Use numeric touchpad to input the new time and then touch enter to accept

This screen can be used to set the present time which will be displayed on the measure screens. This time will also be printed on demand and stored in the data storage center of the meter when data is saved. There are two format options for the time. The clock can be set as either a 12 hour clock or a 24 hour clock.

To Set Time

- 1** Access the Set Time screen from the System Setup screen. The current time and numeric keypad are displayed on the screen.
- 2** Touch clear to delete the current entry.
- 3** Touch the 24hr or 12hr button to format the clock as either a 12 hour or a 24 hour clock.



- 4** Touch am or pm to set the appropriate time.
- 5** Use the numeric touch pad to enter the desired time, separating the hour and the minutes by touching the : key on the keypad.
- 6** Touch enter to accept the time in the current format.

OR

Touch exit to return to the System Setup screen, without making any changes.



If you do not use the :, the meter will not accept the time.



Remember, HELP is always just a touch of the button away.

Set Beeper Status

Current BEEPER STATUS	
After STABLE Reading	ON
After KEY Touch	OFF
On LIMIT Exceeded	ON

- Use arrow keys to highlight beeper option and then touch ON/OFF to change
- Touch save to accept changes

Navigation buttons: Up arrow, Down arrow, ON, save, exit, help

This screen allows you to turn on or turn off the beeper. You may choose to have an audible signal when the meter recognizes that the current measurement is stable, each time a function button is touched and/or when the set limits of a measurement mode have been exceeded.

After STABLE Reading

When active, the meter delivers an audible tone each time the meter recognizes the current measurement as stable. If deactivated, you will not hear an audible tone at a stable measurement. You will still see the STABLE indicator even if there is no audible tone.

After KEY Activation

When active, the meter delivers an audible tone each time you touch a function button or a key on an alphanumeric keypad. If deactivated, you will not hear a tone after a key touch. The changes will only be visible on the screen.

On LIMIT Exceeded

When active, the meter delivers an audible tone each time the set limits in a measurement mode have been exceeded. If deactivated, you will not hear an alarm tone when the limits in the measurement modes have been exceeded. You will see the LIMIT indicator on the measurement screen. For additional information on the Alarm Limits of the meter, see the setup sections of this manual for each of the measurement modes.

To Set Beeper Status

- 1** Access the Set Beeper Status screen from the System Setup screen. The current beeper status is displayed on the screen.
 - 2** Use the arrow keys to highlight the beeper status option that you would like to modify.
 - 3** Touch ON or OFF until the desired status is visible in the current beeper status box.
 - 4** Touch save to accept the changes and return to the System Setup screen.
- OR
- Touch exit to return to the System Setup screen, without making any changes.

Select Procedural Level

Current LEVEL **1**

LEVEL 1 - Basic Level

LEVEL 2 - Advanced Level

enter

1

2

Procedural Level 1

September 17, 1997	11:11 am
Temperature	25.0 °C
Electrode Performance	100%

Procedural Level 2

September 17, 1997	11:11 am
ID# 00000	ATC 25.0 °C
auto buffer ON	slope 100%
auto read ON	mV 0000.0

This Selection screen allows you to choose the amount of information that you want to have displayed on the screen. There are two levels to choose from. Both of the levels provide identical results. The amount of information appearing on the measure screens and the number of setup parameters you can manipulate will vary from Basic to Advanced procedural levels.

LEVEL 1 - Basic Level

This level option offers a full set of prompts to guide you through the basic operation of the meter. The information provided on the screen is minimal to reduce clutter. It includes the measurement and the last standardization time and buffer values. The data box at the bottom of the measure screen includes the current date, time, sample temperature and the electrode performance. In addition to the limited information appearing on the measure screen, there are also fewer options available to you in the setup screens of the various measurement modes.

LEVEL 2 - Advanced Level

This option allows you access to all of the features available on the meter. A full set of prompts is available on virtually every screen to lead you through the operation of the meter. You are also given access to all setup parameters for the various measurement modes. Any parameter not appearing on the Basic Level Setup screens will maintain the value previously set in the Advanced Level Setup screens. They will not automatically default to factory default settings. This is ideal if you want to "lock" in a parameter in the Advanced Level and switch to the Basic Level so others cannot accidentally modify the parameter.

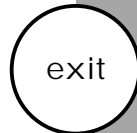
To Select Procedural Level

- 1** Access the Select Procedural Level screen from the System Setup screen. The current procedural level is displayed on the screen.
 - 2** Use the numbered buttons on the right of the screen to select the desired procedural level.
 - 3** Touch enter to accept the procedural level and return to the System Setup screen.
- OR
- Touch exit to return to the System Setup screen, without making any changes.

Set Print Configuration

Current PRINT CONFIGURATION	
- Baud Rate	19200
- # of Bits	8
- # of Stop	1
- # Parity	NONE

- Use arrow keys to highlight desired print setting and then touch edit to change
- Touch save to save the print settings



You can adjust the print configuration of the meter from this screen. The configuration of the following screens must match the configuration of the printer or computer to which the data will be sent.

To Set Print Configuration

- 1** Access the Print Configuration screen from the System Setup screen. The current Print Configuration is displayed on the screen.
 - 2** Use the arrow keys to highlight the configuration option to be modified.
 - 3** Touch edit to access the parameters for the highlighted option.
- OR
- Touch exit to return to the System Setup screen, without making any changes.

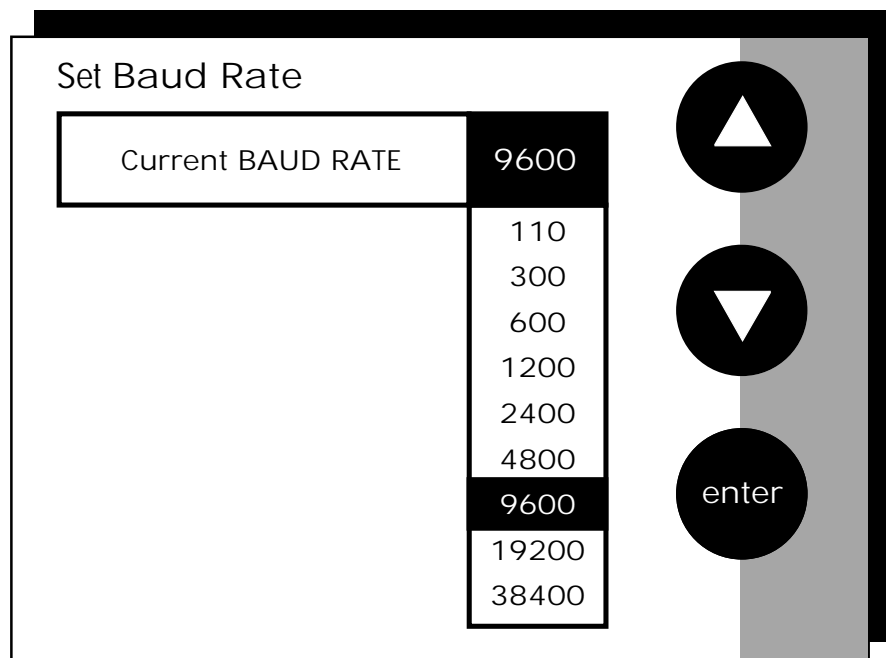
This configuration option will control the speed at which the data will be transmitted to the printer. This parameter needs to match the baud rate designated by the printer or computer.

To Set Baud Rate

- 1** Access the Set Baud Rate screen from the Set Print Configuration screen. The current baud rate is displayed on the screen.
- 2** Use the arrow keys to highlight the baud rate option that matches the baud rate of your printer or computer.
- 3** Touch enter to accept the baud rate and return to the Set Print Configuration screen.

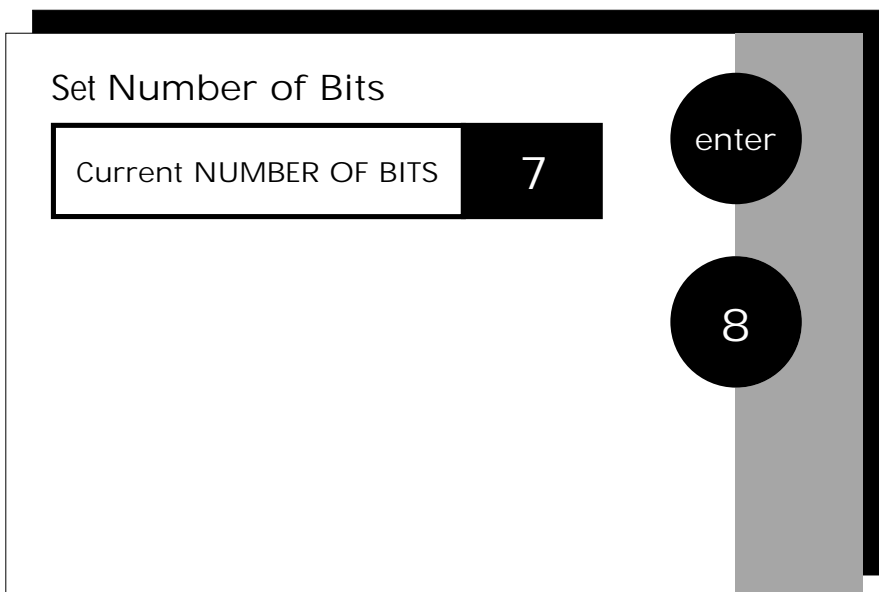
OR

Touch exit to return to the Set Print Configuration screen, without making any changes.



To Set Number of Bits

- 1** Access the Set Number of Bits screen from the Set Print Configuration screen. The current number of bits is displayed on the screen.
 - 2** Touch 7 or 8 to select the number of bits.
 - 3** Touch enter to accept the bit value and return to the Set Print Configuration screen.
- OR
- Touch exit to return to the Set Print Configuration screen, without making any changes.

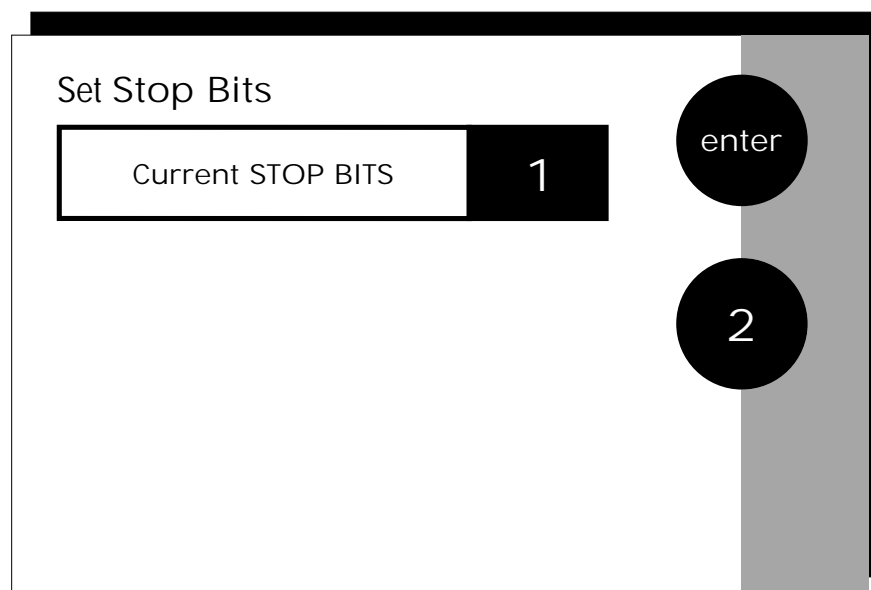


To Set Stop Bits

- 1** Access the Set Stop Bits screen from the Set Print Configuration screen. The current number of bits is displayed on the screen.
- 2** Touch 1 or 2 to set the desired number of stop bits.
- 3** Touch enter to accept the stop bit value and return to the Set Print Configuration screen.

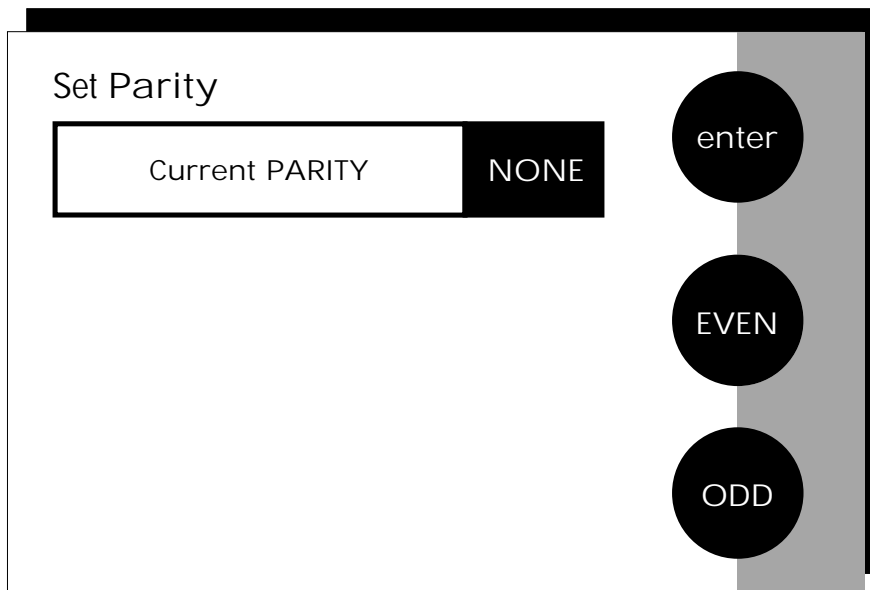
OR

Touch exit to return to the Set Print Configuration screen, without making any changes.



To Set Parity

- 1** Access the Set Parity screen from the Set Print Configuration screen. The current Parity is displayed on the screen.
 - 2** Touch ODD or EVEN or NONE to set the desired parity.
 - 3** Touch enter to accept the parity setting and return to the Set Print Configuration screen.
- OR
- Touch exit to return to the Set Print Configuration screen, without making any changes.



Set Operator

Current Operator

A	B	C	1
D	E	F	2
G	H	I	3
J	K	L	4
M	N	O	5
P	Q	R	6
S	T	U	7
V	W	X	8
Y	Z	-	9
BS	/	.	0

enter

clear

exit


help

This option allows you to identify the user of the meter. This information can be saved in the meter's memory. It can also be printed out with measurement data on demand. The operator identification can be up to 9 characters in length.

To Set Operator

- 1** Access the Set Operator screen from the System Setup screen. The current operator identification is displayed on the screen.
 - 2** Touch clear to remove the current operator identification.
 - 3** Use the alphanumeric keys on the touch screen to enter the desired operator identification. The BS button will allow you to backspace to remove a character that was incorrectly entered. The operator identification code can be a maximum of 9 characters in length.
 - 4** Touch enter to accept the new operator identification.
- OR
- To deactivate the operator identification:
1. Touch clear to erase the current user identification.
 2. Touch enter to return to the System Setup screen.
- OR
- Touch exit to return to the System Setup screen, without making any changes.

Set Display Contrast



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- Touch lighter or darker to adjust contrast and then touch save to accept
- The value displayed ranges from 0 (darkest) to 25 (lightest)

lighter

darker

save

exit

help

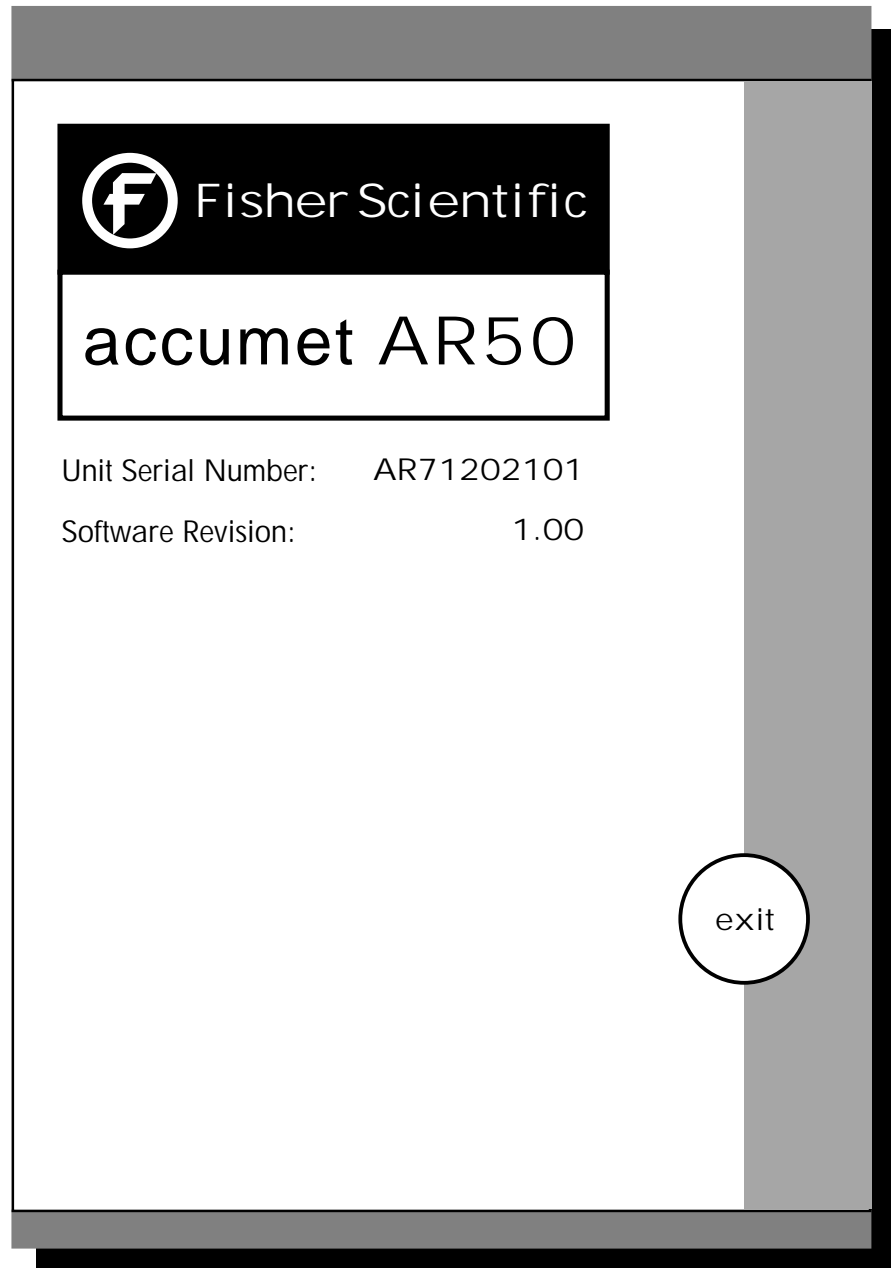
This option allows you to change the contrast on the screen to improve the readability of the information presented on the screen. The numbering system that appears on the screen is from 0 to 25. The darkest setting is 0 and the lightest setting is 25.

To Set Display Contrast

- 1** Access the Set Display Contrast screen from the System Setup screen. The current display contrast value is displayed on the screen.
 - 2** Use the lighter or darker button to adjust the contrast of the screen to the desired level.
 - 3** Touch save to accept the contrast setting and return to the System Setup screen.
- OR
- Touch exit to return to the System Setup screen, without making any changes.

Note: The display contrast of the screen is affected by the internal temperature of the meter. The meter will warm up after being plugged in. During this period (approximately 20 minutes), the display contrast of the screen will get lighter. You may need to adjust the contrast during this period to meet your specifications.

This screen displays the model number, serial number and current software revision of your meter.



This screen allows you to reset all functions and setup parameters of the meter to the settings originally programmed at the factory.

To Reset to Factory Defaults

- 1** Access the Reset to Factory Defaults screen from the System Setup screen.
- 2** Touch YES to reset all parameters to the original factory default settings.

OR

Touch NO to return to the System Setup screen, without making any changes.

