

KEY DIFFERENCES BETWEEN THE NEW ADM-860C AND THE ADM-860

RS232 TO PORTABLE PRINTER

The new ADM-860C AirData Multimeter has an RS232 port that may be used with a portable printer. The optional printer and cable can download each reading as it is taken, or the entire contents of the memory can be downloaded and printed all at once.

RS232 TO COMPUTER

The RS232 link may be used in conjunction with WinWedge® software and any 32 bit Windows® (95, 98, ME, Windows NT® 2000 or XP) application to load readings directly from the meter into a spreadsheet format for display, analysis, and manipulation. Data may also be downloaded from the meter into a word processing format. The WinWedge software comes complete with an instruction manual, license, CD, and full user support for WinWedge from the manufacturer, TAL Technologies, Inc. (www.taltech.com).

MAXIMUM AND MINIMUM READING DISPLAY

The maximum and minimum readings in a stored sequence may now be displayed along with the average and the sum of the readings.

READING SEQUENCE NUMBER

The reading sequence number is displayed during a sequence of stored readings.

STORED READING DELETION

Any reading in a stored sequence may be deleted or replaced. The new sum and average for the revised sequence will be calculated and displayed. This replaces the prior method of using the RCL keys to delete the last reading taken.

FLOWHOOD MODE SUMS AND AVERAGES

The averages and sums of stored FLOWHOOD mode readings are now displayed three different ways: all readings in sequence, backpressure compensated readings, and nonbackpressure compensated readings. When the STORE key is pressed repeatedly following a reading, the first display is the average of all of the readings in the sequence combined, followed by the average of just the compensated readings, and then the average of the noncompensated readings. Pressing the STORE key repeatedly again will display the sum of all the readings in the sequence, then the sum of the compensated readings, and finally the sum of the noncompensated readings.

READINGS STORED IN MEMORY WHILE METER IS TURNED OFF

Any readings stored in memory when the meter is turned off will be saved while the meter is shut down. The next time the meter is turned on, it will default to the STORE mode which was selected when the meter was last turned off using the meter keypad. The last reading stored in memory will be displayed.

DISPLAY

The ADM-860C has a new display that provides more information. It is also easier to read.

BACK-LIGHT

The new display has a back-light for use in low-light conditions. The back-light is turned on and off by toggling the ON/OFF key. Note that use of the back-light significantly increases the load on the batteries and reduces the operating time (measured by continuous reading operation) by about half. It is difficult in normal light to tell if the back-light is on or off. The meter will display LIGHT ON when the light is first turned on. The colon normally found in the third position from the left of the displayed reading will be replaced by a schematic light symbol (☼). The back-light may not be turned on if the battery charge is too low. The display will read NO LIGHT/BATTERY/TOO LOW.

OFF KEY

The addition of the back-light feature required a change in the way the meter is turned off. The meter is turned OFF by pressing SHIFT, then OFF.

SPEED-READ

The SPEED-READ feature has been replaced by the TREND mode. The TREND mode offers a continuous series of readings at intervals of about once per second. The accuracy specifications do not apply in TREND mode. A standard manual reading will be displayed after the TREND readings have been halted by holding down the READ key.

METER AND BATTERY STATUS DISPLAY

All selected functions (measurement mode, units, local or standard temperature) may always be read by pressing SHIFT/SHIFT. The approximate level of charge remaining in the batteries will also be displayed. The display will read BATT FULL if the batteries are highly charged. The display will read BATT 2/3, BATT 1/3, or BATT LOW as the level of charge decreases. No reading is taken, and no data is discarded.

POWER-ON DEFAULTS

The meter will initialize with the mode, units and memory storage status which were in effect when it was last turned off by pressing SHIFT/OFF on the meter keypad, or was forced to shut down automatically due to low voltage. This information will not be saved if the meter has been reset. If the meter was in the STORE mode when it was turned off, the meter will display the mode, units and the final reading of the last sequence in memory, when it is turned on again. Reading storage may be resumed or the STORE mode may be exited by pressing SHIFT/CLEAR.

CALC DISPLAY ELIMINATED

The ADM-860C uses a much faster microcontroller than the ADM-860. Calculations occur almost instantaneously. There is no need to display the CALC message.

BATTERY CHARGE INDICATOR LIGHT

A green LED on the front panel lights when the battery charger is properly connected.

LOW CHARGE DISPLAY

When the battery charge is nearly depleted, the meter will display LOW CHARGE. The colon normally shown following the units for a displayed reading will be replaced by a symbol for an empty battery cell. The meter will not display LOW CHARGE again, but the symbol for the empty battery cell will remain on the display.

If the meter has been being used with the back-light turned off, the user will have approximately 30 minutes of runtime before the meter displays RECHARGE/SHUT DOWN and turns itself off. The time period will vary considerably depending on prior use. The meter must be recharged prior to further use.

If the meter has been being used with the back-light turned on, the user will have 5 to 20 minutes of runtime before the meter displays RECHARGE/SHUT DOWN and turns itself off. The time period will vary considerably depending on prior use. When this occurs, the meter may be turned back on **without the back-light** and used until LOW CHARGE is displayed again. The colon normally shown following the units for a displayed reading will be replaced by a symbol for an empty battery cell. The user will have 5 to 10 minutes of runtime before the meter displays RECHARGE/SHUT DOWN and turns itself off. The meter must be recharged prior to further use.