

## Handheld Controller Use and Setup

The first time you use your DM-100 handheld controller you may need to set the function to GAS PRICE as described below.

LCD Screen	Action/Information Shown
	<b>For indoor installation only:</b> Plug the wall pack transformer into a 120 VAC power outlet, and connect it to the DM-100. This display appears briefly.
	If GAS PRICE is shown on the bottom line of the LCD during startup, do nothing. The controller automatically defaults to previous Gas Price settings.  If a function other than GAS PRICE is shown on the bottom line of the LCD during startup, press the <b>SET FUNCTION</b> key while the second LCD prompt is displayed.
	Press the <b>Up</b> and <b>Down Arrow</b> keys until the gas price option is shown. Press the <b>ENTER</b> key to accept.

## Menu Navigation

1. Press the **MENU** key.
2. Press the **Up** and **Down Arrow** keys to select between available menu options.
3. Press **ENTER** to select the desired menu option.
4. Press the **MENU** key to exit.

Menu Items	
Diagnostics Menu	Display Menu
Display Status	Price Options
Detect Displays	Configuration
Test Patterns	POS Settings
COM Diagnostics	POS Price Offset
About	Modem

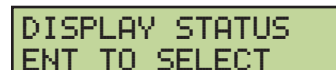
## Diagnostics Menu

Press the **MENU** key followed by **ENTER** to select the **Diagnostics Menu**.



## Display Status

1. Press the **MENU** key followed by **ENTER** to select the **Diagnostics Menu**.
2. Press **ENTER** to open the **Display Status** menu item.



LCD Screen	Action/Information Shown
	Press <b>ENTER</b> to get display status.
	Press the <b>Up Arrow</b> key to select another network, if applicable.  Press the <b>Down Arrow</b> key to move to another sign and line number.
	Press <b>ENTER</b> to view Display Status menu items: <ul style="list-style-type: none"> <li>• Driver Firmware Version</li> <li>• Dim Level</li> <li>• Dimming Mode (Automatic or Manual)</li> <li>• Light Sensor Status</li> <li>• Com1 Device Detection (Wired or Radio)</li> </ul>

## Detect Displays

DETECT DISPLAYS  
ENT TO BEGIN

1. Press the **MENU** key followed by **ENTER** to select the **Diagnostics Menu**.
2. Press the **Down Arrow** key to reach **Display Detection**, and then press **ENTER**.

LCD Screen	Action/Information Shown
<pre>SETUP IS SAVED CLEAR &amp; DETECT?</pre>	<p>Press <b>ENTER</b> twice to begin the display detection process.</p> <p>The screen will cycle through all the displays it has detected.</p>
<pre>ARE YOU SURE? ENT TO BEGIN</pre>	
<pre>X NETWORKS FOUND</pre>	
<pre>NETWORK X OF Y</pre>	
<pre>DETECTING DISPLAYS...</pre>	
<pre>DETECTED SIGN X LX,Y,Z</pre>	
<pre>SENDING CONFIGURATION</pre>	
<pre>X NETWORKS FOUND CONFIG SAVED</pre>	
<pre>LINE PRICE1 -RTX 1 + \$1.11 9/10</pre>	<p>After changing the network configuration the "RTX" message may appear in the upper-right corner of the LCD to indicate the DM-100 is attempting to (re) connect to all detected networks.</p>

## Test Patterns

TEST PATTERNS  
ENT TO START

1. Press the **MENU** key followed by **ENTER** to select the **Diagnostics Menu**.
2. Press the **Down Arrow** key to reach **Test Patterns**, and then press **ENTER**.

LCD Screen	Action/Information Shown
<pre>ENTER CYCLE BITS CLEAR TO EXIT</pre>	<p>Press <b>ENTER</b> to start the CYCLE BITS test pattern. Each digit will turn on its segments one at a time. Press the <b>Down Arrow</b> key to move to the next test pattern.</p>
<pre>ENTER DIAGNOSTIC CLEAR TO EXIT</pre>	<p>Press <b>ENTER</b> to start the DIAGNOSTIC test pattern. Press the <b>Down Arrow</b> key to move to the next test pattern.</p>
<pre>ENTER CYCLE NUMS CLEAR TO EXIT</pre>	<p>Press <b>ENTER</b> to start the CYCLE NUMS test pattern. Each digit will display numbers 1-9 then blank and repeat.</p> <p>Press <b>CLEAR</b> at any time to exit the test pattern menu.</p>

## COM Diagnostics

COM DIAGNOSTICS  
ENT TO SELECT

1. Press the **MENU** key followed by **ENTER** to select the **Diagnostics Menu**.
2. Press the **Down Arrow** key to reach **COM Diagnostics**, and then press **ENTER**.

LCD Screen	Action/Information Shown
<p>DIAGNOSTICS POS PORT MONITOR</p> <p>DIAGNOSTICS COM PORT TESTS</p> <p>DIAGNOSTICS POS STATUS</p>	<p>There are three menu choices described below:</p> <ul style="list-style-type: none"> <li>• PoS Port Monitor</li> <li>• COM Port Tests</li> <li>• PoS Status</li> </ul> <p>Press the <b>Up</b> and <b>Down Arrow</b> keys to select the appropriate menu choice.</p>
<p>DIAGNOSTICS POS PORT MONITOR</p> <p>USE POS DEFAULTS? 1-YES 2-NO</p> <p>INCOMING DATA...</p>	<p>Press <b>ENTER</b> to begin the <b>PoS Port Monitor</b>.</p> <p>Press <b>1</b> to use the PoS default settings, or press <b>2</b> to enter the settings.</p> <p><b>Note:</b> If 2 is pressed, see below for settings to select.</p> <p>Press <b>ENTER</b> to exit.</p>
<p>SELECT BAUD RATE 9600 ↑↑</p> <p>SELECT STOP BITS 1 ↑</p>	<p>Consult the PoS system manual for specific Baud Rate and Stop Bits as needed.</p> <p>Press the <b>Up</b> and <b>Down Arrow</b> keys to select the appropriate Baud Rate, and then press <b>ENTER</b>. Default Baud Rate = 9600</p> <p>Press the <b>Up</b> and <b>Down Arrow</b> keys to select the appropriate Stop Bits, and then press <b>ENTER</b>. Default Stop Bits = 1</p>
<p>DIAGNOSTICS COM PORT TESTS</p> <p>SELECT TEST ↓ RS232 COM0</p> <p>SELECT TEST ↑↓ RS232 COM0→COM1</p> <p>SELECT TEST ↑↓ RS232 COM1</p> <p>SELECT TEST ↑ CURRENT LOOP</p>	<p>Press <b>ENTER</b> to test the operation of the DM-100 COM ports and/or cables. These tests are useful for determining if the ports themselves are operational and if cables are good.</p> <p>Press the <b>Up</b> and <b>Down Arrow</b> keys to select the appropriate test, and then press <b>ENTER</b>.</p> <ul style="list-style-type: none"> <li>• RS232 COM0 – Checks for a “loopback” jumper on pins 2 &amp; 3 of the top-left connector (FAIL if a loopback is not detected).</li> <li>• RS232 COM0→COM1 – Checks for transmit and receive connections between the top-left and top-right connectors (FAIL if the ports are not connected together).</li> <li>• RS232 COM1 – Checks for a “loopback” jumper on pins 2 &amp; 3 of the top-right connector (FAIL if a loopback is not detected).</li> <li>• CURRENT LOOP – Checks for “loopback” jumpers on the left connector between pins 6 &amp; 8 and 5 &amp; 9 (FAIL if jumpers not detected).</li> </ul> <p>Press <b>ENTER</b> to exit.</p>
<p>DIAGNOSTICS POS STATUS</p>	<p>This menu is only used for internal Daktronics testing purposes.</p>

## About

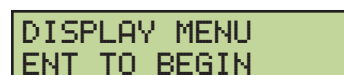


1. Press the **MENU** key followed by **ENTER** to select the **Diagnostics Menu**.
2. Press the **Down Arrow** key to reach **About**, and then press **ENTER**.

LCD Screen	Action/Information Shown
	Press <b>ENTER</b> to view the About menu.
	The DM-100 toggles between Firmware and Function information.  Press <b>ENTER</b> at any time to exit the About menu.

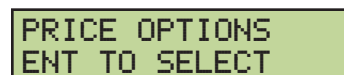
## Display Menu

1. Press the **MENU** key.
2. Press the **Down Arrow** key to reach **Display Menu**.
3. Press **ENTER** to select the **Display Menu**.



## Price Options

1. Press the **MENU** key.
2. Press the **Down Arrow** key to reach **Display Menu**, and then press **ENTER**.
3. Press **ENTER** to open the **Price Options** menu item.

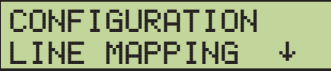



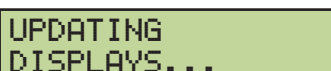
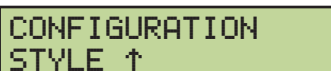

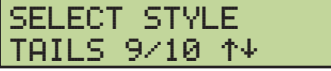
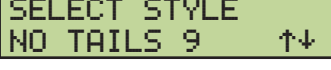
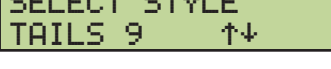


LCD Screen	Action/Information Shown
	The ACTIVE PRICES menu is used to select the active price states (Cash, Credit, and/or Debit) to show on the display along with a hold time for each active price.
	<b>Note:</b> If there is no CASH/CREDIT display, the ACTIVE PRICES menu selection should be set to "1" to only show one price.
	This menu works with the <b>PoS Price Offset (p.6)</b> menu. VAL1, VAL2, and VAL3 are the adjustments to be applied when showing price 1, 2, and 3, respectively.
	Press the <b>Up</b> and <b>Down Arrow</b> keys to cycle between active price choices: 123, _23, 1_3, __3, 12_, _2_, 1__
	Press <b>ENTER</b> , and then use the number keypad to enter the HOLD TIME in seconds for each active price to be displayed. Press <b>ENTER</b> to save the active prices and hold time.
	<b>Note:</b> The default hold time is 3 seconds.

## Configuration

CONFIGURATION  
ENT TO SELECT

1. Press the **MENU** key.
2. Press the **Down Arrow** key to reach **Display Menu**, and then press **ENTER**.
3. Press the **Down Arrow** key to reach **Configuration**, and then press **ENTER**.

LCD Screen	Action/Information Shown
	<p>Press <b>ENTER</b> to begin editing line information.</p> <p><b>Note:</b> The line in <b>Edit</b> mode flashes and shows its line information (L01, L02, etc.)</p>
	<p>Press the <b>Up Arrow</b> key to select another network, if applicable, and then press <b>ENTER</b>.</p>
	<p>Press the <b>Up</b> and <b>Down Arrow</b> keys to select a sign address, and then press <b>ENTER</b>.</p>
	<p>Press the <b>Up</b> and <b>Down Arrow</b> keys to change the <b>Line Number</b>. Press <b>ENTER</b> to accept the <b>Address</b> and <b>Line</b> assignments.</p>
	<p>Press <b>CLEAR/SET FUNCTION</b> to map lines in the next network. Continue pressing <b>CLEAR/SET FUNCTION</b> to exit to the main screen.</p>
	<p>Press <b>ENTER</b> to change the appearance of numbers six and nine (6 and 9). <b>Figure 1</b> shows examples.</p> <p><b>Note:</b> For Domestic displays with a 9/10 digit, the number "3" must show in the first column for the desired format. For International displays, make sure the number "4" appears in the first column for the desired format.</p>
	<p>Press the <b>Up</b> and <b>Down Arrow</b> keys to toggle through the choices:</p> <ul style="list-style-type: none"> <li>• Remove tails on sixes and nines, and show 9/10 on the display.</li> <li>• Show tails on sixes and nines, and show 9/10 on the display.</li> <li>• Remove tails from sixes and nines and show only a 9 on the display.</li> <li>• Show tails on sixes and nines, and show only a 9 on the display.</li> </ul> <p>Press the <b>ENTER</b> key to view the change.</p> <p>Press <b>CLEAR/SET FUNCTION</b> to save the selection.</p>
	
	
	

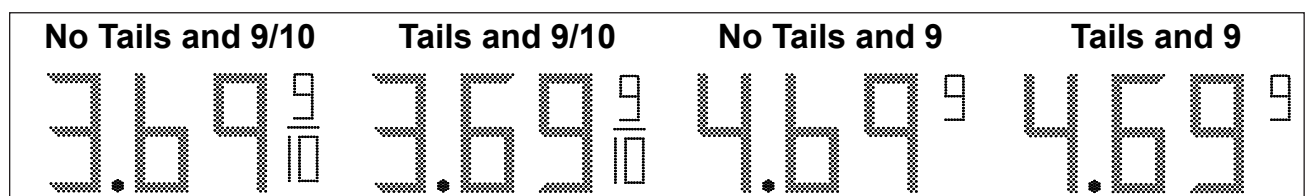


Figure 1: Digit Configuration Styles

## PoS Settings

POS SETTINGS  
ENT TO MODIFY

1. Press the **MENU** key.
2. Press the **Down Arrow** key to reach **Display Menu**, and then press **ENTER**.
3. Press the **Down Arrow** key to reach **PoS Settings**, and then press **ENTER**.

LCD Screen	Action/Information Shown
POS INTERFACE ALLIED ↑↓	Use the <b>Up</b> and <b>Down Arrow</b> keys to select <b>ALLIED</b> , and then press <b>ENTER</b> .
LINE 1 GRADE: 1 ↑↓	Use the <b>Up</b> and <b>Down Arrow</b> keys to select a grade for line 1, and then press <b>ENTER</b> . If a line is not used, select <b>NONE</b> .
LINE 1 SERVICE: SELF ↑↓	Use the <b>Up</b> and <b>Down Arrow</b> keys to select a service level (SELF, MINI, FULL) for the line, and then press <b>ENTER</b> .
LINE 1 PAY TYPE: CASH ↓	Use the <b>Up</b> and <b>Down Arrow</b> keys to select a pay type (CASH or CRED), and then press <b>ENTER</b> .
	Complete the steps above for each display line.

## PoS Price Offset

POS PRICE OFFSET  
ENT TO MODIFY

1. Press the **MENU** key.
2. Press the **Down Arrow** key to reach **Display Menu**, and then press **ENTER**.
3. Press the **Down Arrow** key to reach **PoS Price Offset**, and then press **ENTER**.

LCD Screen	Action/Information Shown
LN1 PRICE OFFSET VAL1 +.00 ↑↓	Use the <b>Up</b> and <b>Down Arrow</b> keys to select the amount to offset the price (in cents).  Press <b>ENTER</b> to move to the next value to offset.  Complete the steps above for each value of every line. Up to three offset values (VAL1, VAL2, VAL3) may be configured. The adjustments are applied when showing price 1, 2, and/or 3 as described in <b>Price Options (p.4)</b> .
PRICE OFFSETS NOT ALLOWED	<b>Note:</b> This is for use with CASH/CREDIT displays. If there is no CASH/CREDIT display, "VAL1" should be set to "+.00".  If this message appears, a PoS interface has not been properly configured. Refer to <b>PoS Settings (p.6)</b> to ensure the correct PoS interface is selected.

## Modem

MODEM  
ENT TO SELECT

1. Press the **MENU** key.
2. Press the **Down Arrow** key to reach **Display Menu**, and then press **ENTER**.
3. Press the **Down Arrow** key to reach **Modem**, and then press **ENTER**.

LCD Screen	Action/Information Shown
Modem Select: Enabled	Use the <b>Up</b> and <b>Down Arrow</b> keys to select whether to enable or disable the modem.  Press <b>ENTER</b> .  Press <b>ENTER</b> again to save the selection or press <b>CLEAR</b> to cancel.
Modem Select: Disabled	
Save? ENTER: YES CLEAR: NO	

## Dimming

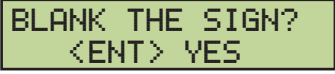
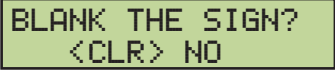
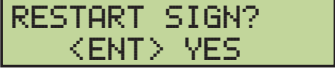
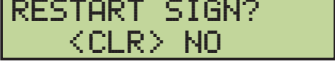
1. Press **DIMMING** on the keypad. The current setting is shown on the bottom line of the LCD. The dimming level of the display is adjusted in one of two ways:
  - Automatic Dimming uses a light sensor inside each display to detect the level of ambient light at the display location and dim the LED brightness accordingly.
  - Manual Dimming retains the same LED brightness level regardless of the level of light detected at the display.
2. Refer to the following tables to set the dimming level:

LCD Screen	Action/Information Shown
DIMMING AUTOMATIC ↓	Press the <b>Down Arrow</b> key to toggle through dimming settings: <ul style="list-style-type: none"> <li>• <b>Automatic</b> – The display automatically dims based on the light detected at the display.</li> <li>• <b>Manual</b> – The display dimming level is set manually. Once set, this value remains the same regardless of the light level detected at the display.</li> <li>• <b>Blank Sign</b> – Briefly clears all content from display.</li> </ul>

When **MANUAL** dimming is selected, the following prompt appears:

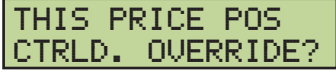
LCD Screen	Action/Information Shown
INTENSITY XX↑↓* ENTER TO SET	Press the <b>Up</b> and <b>Down Arrow</b> keys to modify the display's current intensity.  <b>Note:</b> The DM-100 must be communicating with the display.
XX – Current intensity (01-63) Max Intensity – 63	Press <b>ENTER</b> to accept this intensity.

When **BLANK SIGN** is selected, the following prompt appears:

LCD Screen	Action/Information Shown
	Press <b>ENTER</b> to blank the sign.
	Press <b>CLEAR</b> to leave the sign on.
	When in Blank Mode, the digits on all of the displays will turn off and only the decimal will be lit.
	To turn the sign back on, first press the <b>DIMMING</b> key, and then press <b>ENTER</b> . To leave the sign blank, press <b>CLEAR</b> .

## Set Petroleum Prices

Each line automatically updates when the price is changed in the PoS system. The following error appears when attempting to edit prices that are configured for PoS control:

LCD Screen	Action/Information Shown
	To manually edit the price, press <b>ENTER</b> . To cancel, press <b>CLEAR</b> .

## Update the Display

After connecting to the display with the handheld controller, press **UPDATE DISPLAY** to show the new sequence on the display. This button also allows for a preview of the new sequence on the LCD.

## For More Information

Contact Daktronics Customer Service:

United States & Canada: 1-800-DAK-TRON (325-8766)	Outside the U.S. & Canada: +1-605-275-1040
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For additional information and assistance, contact Allied at 215-785-6200.