### **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
CURRENT FUNCTION GAS PRICE	For indoor installation only: Plug the wall pack transformer into a 120 VAC power outlet, and connect it to the DM-100. This display appears briefly.
CHANGE FUNCTION? PRESS SET FUNCT	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.
SELECT FUNCTION GAS PRICE ↑↓	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.

DIAGNOSTICS MENU ENT TO BEGIN

### **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.

DISPLAY STATUS ENT TO SELECT

LCD Screen	Action/Information Shown
	Press <b>ENTER</b> to get display status.
DISPLAY STATUS GET STATUS	Press the <b>Up Arrow</b> key to select another network, if applicable.
SELECT NETWORK	Press the <b>Down Arrow</b> key to move to another sign and line number.
1 ↑↓	Press ENTER to view Display Status menu items:  • Driver Firmware Version
SELECT DISPLAY SIGN 1 LINE 1 ↓	<ul> <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>



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### **Detect Displays**

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

DETECT DISPLAYS ENT TO BEGIN

2. Press the Down Arrow key to reach Display Detection, and then press ENTER.

LCD Screen	Action/Information Shown
SETUP IS SAVED CLEAR & DETECT?	Press <b>ENTER</b> twice to begin the display detection process.  The screen will cycle through all the displays it has detected.
ARE YOU SURE? ENT TO BEGIN	The selectiving cycle in reagn and the displays in rias delected.
X NETWORKS FOUND	
NETWORK X OF Y	
DETECTING DISPLAYS	
DETECTED SIGN X LX,Y,Z	
SENDING CONFIGURATION	
X NETWORKS FOUND CONFIG SAVED	
LINE PRICE1 -RTX 1 ↓ \$1.11 9/10	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.

### **Test Patterns**

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

TEST PATTERNS ENT TO START

2. Press the **Down Arrow** key to reach **Test Patterns**, and then press **ENTER**.

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



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### **COM Diagnostics**

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

COM DIAGNOSTICS ENT TO SELECT

2. Press the Down Arrow key to reach COM Diagnostics, and then press ENTER.

LCD Screen	Action/Information Shown
DIAGNOSTICS POS PORT MONITOR	There are three menu choices described below:  • PoS Port Monitor
DIAGNOSTICS COM PORT TESTS	<ul><li>COM Port Tests</li><li>PoS Status</li></ul>
DIAGNOSTICS POS STATUS	Press the <b>Up</b> and <b>Down Arrow</b> keys to select the appropriate menu choice.
DIAGNOSTICS	Press ENTER to begin the PoS Port Monitor.
POS PORT MONITOR	Press 1 to use the PoS default settings, or press 2 to enter the settings.
USE POS DEFALTS? 1-YES 2-NO	Note: If 2 is pressed, see below for settings to select.
2 120 2 110	Press ENTER to exit.
INCOMING DATA	
	Consult the PoS system manual for specific Baud Rate and Stop Bits as needed.
SELECT BAUD RATE 9600 ↓↑	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
SELECT STOP BITS	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
DIAGNOSTICS COM PORT TESTS	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.
SELECT TEST ↓ RS232 COM0	Press the <b>Up</b> and <b>Down Arrow</b> keys to select the appropriate test, and then press <b>ENTER</b> .
SELECT TEST ↑↓ RS232 COMØ÷COM1	<ul> <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-&gt;COM1 – Checks for transmit and receive connections between the top-left and top-right connectors (FAIL if the ports are not</li> </ul>
SELECT TEST ↑↓ RS232 COM1	<ul> <li>connected together).</li> <li>RS232 COM1 – Checks for a "loopback" jumper on pins 2 &amp; 3 of the topright connector (FAIL if a loopback is not detected).</li> </ul>
SELECT TEST ↑ CURRENT LOOP	CURRENT LOOP – Checks for "loopback" jumpers on the left connector between pins 6 & 8 and 5 & 9 (FAIL if jumpers not detected).
	Press ENTER to exit.
DIAGNOSTICS POS STATUS	This menu is only used for internal Daktronics testing purposes.



#### **About**

- 1. Press the MENU key followed by ENTER to select the Diagnostics Menu.
- ABOUT ENT TO VIEW

DISPLAY MENU

ENT TO BEGIN

PRICE OPTIONS ENT TO SELECT

2. Press the **Down Arrow** key to reach **About**, and then press **ENTER**.

LCD Screen	Action/Information Shown
ABOUT → FIRMWARE	Press <b>ENTER</b> to view the About menu.
DD-2256160 4.9	The DM-100 toggles between Firmware and Function information.
ABOUT → FUNCTION GAS PRICE	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
ACTIVE PRICES 123 ↑↓	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.
ACTIVE PRICES 23 ↑↓	Note: If there is no CASH/CREDIT display, the ACTIVE PRICES menu selection should be set to "1" to only show one price.
ACTIVE PRICES 1 3 ↑↓  ACTIVE PRICES	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.
3 ↑↓ ACTIVE PRICES 12 ↑↓	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_
ACTIVE PRICES 2 ↑↓	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.
ACTIVE PRICES 1 ↑↓	Note: The default hold time is 3 seconds.
SET HOLD TIME 3.0*	



CONFIGURATION ENT TO SELECT

### Configuration

- 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
CONFIGURATION	Press <b>ENTER</b> to begin editing line information.
LINE MAPPING ↓	Note: The line in Edit mode flashes and shows its line information
SELECT NETWORK X ↑↓	(L01, L02, etc.)
	Press the <b>Up Arrow</b> key to select another network, if applicable, and then press <b>ENTER</b> .
SELECT DISPLAY ADDRESS XX ↑↓	Press the <b>Up</b> and <b>Down Arrow</b> keys to select a sign address, and then press <b>ENTER</b> .
ENT TO COMMIT ADR XX LIN ØX↑↓	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.
UPDATING DISPLAYS	Press CLEAR/SET FUNCTION to map lines in the next network. Continue pressing CLEAR/SET FUNCTION to exit to the main screen.
CONFIGURATION STYLE ↑	Press <b>ENTER</b> to change the appearance of numbers six and nine (6 and 9). <b>Figure 1</b> shows examples.
	<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.
SELECT STYLE NO TAILS 9/10 ↑↓	Press the <b>Up</b> and <b>Down Arrow</b> keys to toggle through the choices:
SELECT STYLE	Remove tails on sixes and nines, and show 9/10 on the display.
TAILS 9/10 ↑↓	Show tails on sixes and nines, and show 9/10 on the display.
	Remove tails from sixes and nines and show only a 9 on the display.
SELECT STYLE NO TAILS 9 ↑↓	Show tails on sixes and nines, and show only a 9 on the display.
SELECT_STYLE	Press the <b>ENTER</b> key to view the change.
TAILS 9 ↑↓	Press CLEAR/SET FUNCTION to save the selection.

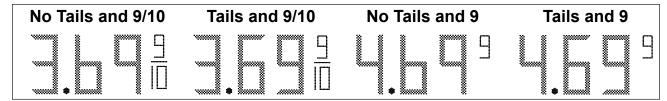


Figure 1: Digit Configuration Styles



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### **PoS Settings**

1. Press the MENU key.

- POS SETTINGS ENT TO MODIFY
- 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	Use the <b>Up</b> and <b>Down Arrow</b> keys to select <b>SAPPHIRE</b> , and then press <b>ENTER</b> .
SAPPHIRE 14	Each price is identified by product ID. Use the <b>Up</b> and <b>Down Arrow</b> keys to select a product ID for line 1, and then press <b>ENTER</b> .
LINE 1 PRODUCT: XX↑↓	If a line is not used, select <b>NONE</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
	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.
LN1 PRICE OFFSET VAL1 +.00 ↑↓	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> .
	<b>Note:</b> This is for use with CASH/CREDIT displays. If there is no CASH/CREDIT display, "VAL1" should be set to "+.00".
PRICE OFFSETS NOT ALLOWED	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.

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MODEM

ENT TO SELECT

#### Modem

- 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.
Modem Select: Disabled	Press ENTER.  Press ENTER again to save the selection or press CLEAR to cancel.
Save? ENTER: YES CLEAR: NO	Thess Effek again to save the selection of pless CEEAK to carled.

# **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:  • <b>Automatic</b> – The display automatically dims based on the light detected at the display.
	<ul> <li>Manual – 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>Blank Sign – Briefly clears all content from display.</li> </ul>

When MANUAL dimming is selected, the following prompt appears:

LCD Screen	Action/Information Shown
INTENSITY XX↓↑*	Press the <b>Up</b> and <b>Down Arrow</b> keys to modify the display's current intensity.
ENTER TO SET	<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.



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

LCD Screen	Action/Information Shown
BLANK THE SIGN?	Press <b>ENTER</b> to blank the sign.
<ent> YES</ent>	Press <b>CLEAR</b> to leave the sign on.
BLANK THE SIGN? (CLR) NO	When in Blank Mode, the digits on all of the displays will turn off and only the decimal will be lit.
RESTART SIGN?	To turn the sign back on, first press the <b>DIMMING</b> key, and then press <b>ENTER</b> .
<ent> YES</ent>	To leave the sign blank, press <b>CLEAR</b> .
RESTART SIGN? <clr> NO</clr>	

### **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
THIS PRICE POS	To manually edit the price, press <b>ENTER</b> .
CTRLD. OVERRIDE?	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: Outside the U.S. & Canada:

1-800-DAK-TRON (325-8766) +1-605-275-1040

For additional information and assistance, contact VeriFone at 800-VeriFone (800-837-4366).

