

## Error Codes

Code	Description
20	Pulser Fail
21	Non-existent Memory
22	Not Used
23	Grade Assignment Changed
24	Conversion Factor Changed/ Not Programmed
25	Two-Wire/Standalone Mode Changed
26	No Conversion Factor Table
27	Side A Two-Wire ID Changed
28	Side B Two-Wire ID Changed
29	Pump Time-Out Error
30	VaporVac® Fail Both Sides or Vapor Sense <sup>7</sup>
31	Totals Data Error
32	Pulser Count Error
33	VaporVac Fail One Side or Push-To-Stop Button Activated
34	Battery Charge Low
35	Configuration Data Error
36	Unit Type Configuration Code Changed
37	PIN Code 1 Changed
38	PIN Code 2 Changed
39	Cash/Credit Option Changed
40	Master Reset Jumper in Place
41	Side Exists Option Changed
42	PPU Options Changed
43	Not Used
44	Pump Handle Up at Power Up

## Blend Error Codes

Code	Description
4301	Communication Time-Out
4302	Blend Controller Busy
4303	Communication Limit
4304	Communication Limit
4305	Received Data Error
4306	Received Block Error
4307	Blends Not Programmed
4308	No Blend Table
4311	Low Product Low Flow
4312	Hi Product Low Flow
4313	Low Product No Flow
4314	Hi Product No Flow
4315	Hi Product Contaminated by Lo
4316	Lo Product Contaminated by Hi
4317	Lo Product Surge
4318	Hi Product Surge
4319	Undefined Surge
4320	No Power To Hi Valve
4321	No Power To Lo Valve
4322	No Power To Valves
4323	Pulser Fail
4324	Invalid Command/Software
4325	Maximum Pulse Lag Exceeded
4326	Lost Communications
4327	Software Stack Error
4328	BPC Slow In Removing Pulses
4329	Leaky Valve

## The Advantage MPD®

Code	Description
4351	Valve Leaks - Grade 1
4352	Valve Leaks - Grade 2
4353	Valve Leaks - Grade 3
4354	Valve Leaks - Grade 4
4355	Valve Leaks - Grade 1 & 2
4356	Valve Leaks - Grade 1 & 3
4357	Valve Leaks - Grade 1 & 4
4358	Valve Leaks - Grade 2 & 3
4359	Valve Leaks - Grade 2 & 4
4360	Valve Leaks - Grade 3 & 4
4361	Valve Leaks - All Grades

\* Default

\*\* Default for Optimized Electronics

\*\*\* Default for all except Optimized  
Electronics

<sup>1</sup> Default for V70.82 or higher.

<sup>2</sup> VaporVac Alarm must be programmed to  
'ON' in Mexico.

<sup>3</sup> Ultra-Hi only.

<sup>4</sup> Must be programmed to '1' in New Jersey.

<sup>5</sup> See MDE-2531 for versions supported

<sup>6</sup> Super-Hi only (Version 82.03 or higher)

<sup>7</sup> Canada only

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## MDE-2740H

Pump and Dispenser Programming  
Quick Reference Guide  
for The Advantage® Series, Legacy®,  
Dimension®, Highline™, Performer®,  
MPD®-3 with LCD Displays, and  
Optimized Electronics

## Software Versions

For detail on software versions see MDE-2531 Pump and Dispenser Service Manual.

Power-up and Command Code 8 display the current software version.

## Pin Code Entry

Level 1- Press F1, enter 4-digit ID (default 2222) then press ENTER.

Level 2- From Level 1, enter any Level 2 Command Code (10-12), enter 4-digit ID (default 1503) then press ENTER.

Level 3- From Level 2, enter any Level 3 Command Code (13-17), enter 4-digit ID (default 1309) then press ENTER.

Press F1 to exit any command code.

Press F2 to return to normal operation.

## From Level 2:

### Command Code 10:

System Configuration

Press *ENTER* after making selections.

- Enter 10.
- Enter Function #.
- Enter Configuration #.

Function Code 1:

Unit Type

*Self configures default value.*

1 = 1 product

2 = 2 product

3 = 3 product

4 = 4 product

Function Code 2:

Money Decimal Point

1 = xxxxx

2 = xxxxx.x

3 = xxx.xx \*

4 = xxx.xxx

Function Code 3:

Calculation PPU Decimal Point

(Required in U.S. per Weights & Measures)

1 = xxxxx

2 = xxx.x

3 = xx.xx

4 = x.xxx \*

Function Code 4:

Displayed PPU Decimal Point

*Self configures default value.*

1 = xxxxx

2 = xxx.x

3 = xx.xx

4 = x.xxx\*

#### Function Code 5:

STP Prestart

0 = Off \*\*

1 = On \*\*\*

#### Function Code 6:

Beeper Option V/Vac Alarm

0 = Off Off

1 = On <sup>1</sup> Off

2 = Off On<sup>2</sup>

3 = On On<sup>2</sup>

#### Function Code 7:

Vapor Sense Option

0 = Off \*

1 = On

#### Function Code 8:

Two-Wire Display Blank Option:

0 = Off \*

1 = On

#### Function Code 9:

5 or 6 Digit Cash Display

0 = 5 Digit Money \*

1 = 6 Digit Money

#### Function Code 10:

Decimal/Comma Mode

0 = Decimal point \*

1 = Decimal point, comma

#### Function Code 11: / Function Code 12:

Preselect Time-Out / Pump Time-Out

0 = None \*

1 = 5 seconds

2 = 15 seconds

3 = 30 seconds

4 = 45 seconds

5 = 60 seconds

6 = 75 seconds

7 = 90 seconds

8 = 120 seconds

#### Function Code 13:<sup>3</sup>

Slowdown

0 = .070 gallons (.264 liters)

1 = .120 gallons (.454 liters) \*

2 = .170 gallons (.643 liters)

3 = .220 gallons (.833 liters)

4 = .270 gallons (1.02 liters)

5 = .320 gallons (1.21 liters)

6 = .370 gallons (1.40 liters)

7 = .420 gallons (1.59 liters)

8 = .470 gallons (1.78 liters)

9 = .520 gallons (1.97 liters)

#### Function Code 14:

G6 Select Option

Software version 75.X only.

0 = Do not push G6 select

1 = Must push G6 select \*

#### Function Code 15:

Zero PPU Pricing Option Enable

0 = Disabled \*

1 = Enabled

#### Function Code 16:

Beeper Time-out

0 = None \*

1 = 5 seconds

2 = 15 seconds

3 = 30 seconds

4 = 45 seconds

5 = 60 seconds

6 = 75 seconds

7 = 90 seconds

8 = 120 seconds

#### Function Code 17:

Stop Control

0 = Stop controls one side \*

1 = Stop controls two sides

#### Function Code 18:

Zero Previous Transaction After Pump

Handle Operation

0 = Zero after lamp test \*

1 = Zero before lamp test <sup>4</sup>

#### Function Code 19:

Lamp Test <sup>5</sup>

1 = 1 second

2 = 2 second

3 = 3 second \*

4 = 4 second

5 = 5 second

6 = 6 second

7 = 7 second

8 = 8 second

9 = 9 second

#### Function Code 20:

Programmable Pump Preset Value

0 = Value X 1 \*

1 = Value X 10

#### Function Code 21:

PPU Blinking Option

0 = No PPU blinking

1 = PPU Blinking \*

#### Function Code 22:

Volume Decimal Point

0 = XXX.XXX \*

1 = XXXX.XX (export only)

#### Function Code 23:

Program STP Control

0 = Off \*

1 = On

#### Function Code 24:

Hose Pressurization

0 = Off \*

1 = 2 Hr.

2 = 1/2 Hr.

#### Command Code 11:

Grade Assignment

Perform at console.

#### Command Code 12:

Pump Program

Press *ENTER* after making selections.

- Enter 12

- Enter Side #

1 = Side A

2 = Side B

- Enter Function Code (1-4)

- Enter Configuration Code

#### Function Code 1:

Two-Wire Pump ID

1-16 = Choose a number 1-16

#### Function Code 2:

Cash/Credit At Pump

0 = No (CRIND®) \*

1 = Yes (if console programmed for cash/credit price levels)

2 = Yes (for H111B w/ LCDs & cash/credit only)

#### Function Code 3:

Side Exists

0 = Does not exist

1 = Exists \*

#### Function Code 4:

PPU Options

0 = Level 1 price bar displays level sent by console or CRIND card reader.

1 = Normal \*

2 = Level 2 price bar, level 1 prices and level 1/level 2 prices

3 = Level 2 price bar displays level sent by console or CRIND card reader.

## From Level 3:

#### Command Code 13:

Pin Code Change

Press *ENTER* after selections.

- Enter 13

- Enter Level # 1, 2 or 3

- Enter new PIN Code

Unit returns to Command Input Mode.

#### Command Code 16:

Blend Ratios

Press *ENTER* after making selections.

- Enter 16

- Enter Side #

1 = Side A

2 = Side B

3 = Both Sides

- Enter Grade #

- Enter low blend percentage

Repeat for remaining grades

#### Command Code 17

Conversion Factor and Master Reset

Select *function code*.

#### Function Code 1:

Conversion Factor

0 = No conversion factor \*

1 = U.S. Gallons

2 = Imperial Gallons

3 = Liters

4 = 1012 Pulses per gallon

#### Function Code 2:

Master Reset

Software versions 54.0, 74.4, 72.0, 75.3 and 77.2 and higher versions.

0 = No Master Reset\*

1 = Master Reset

#### Command Code 19 <sup>6</sup>

Meter Calibration

#### Side 1 and Side 2:

Configuration Code

0 = Normal \*

1 = Calibrate A Meter Only

2 = Calibrate B Meter Only

3 = Calibrate A & B Meters