

# **INDEX**

#### Δ

Advanced Commands, A-18
ASCII String Commands, A-3
ASCII String format, A-3

## B

Basic Commands, A–5 Embedded Variables, A–16

## C

Communications Connections, 3–7
Communication Connections Cover, 3–7
Communication Connectors, 3–7
Port 1 RS-232 / Port 2 RS-485 Terminal Block Connection, 3–8
Port 3 Ethernet Connection, 3–9
RS-232 Port 1 RJ12 Connector, 3–8
Conventions Used, 1–3

## D

Dimensional Drawings, 2–15 Display Commands, A–19

## E

Export and Import Configuration, 6-12

## G

```
Getting Started, 1-5
   Before You Begin, 1-6
   Step 1 - Install Configuration Software, 1-7
   Step 10 - Sending Messages from your PLC to the ViewMarq, 1–18
   Step 2 - Launch Configuration Software, 1-8
   Step 3 - Connect Power Wiring, 1-9
   Step 4 - Connect the ViewMarq Message Display to a PC, 1-10
   Step 5 - Apply Power to the Display, 1–11
   Step 6 - Create Link between the ViewMarq and your PC, 1-12
   Step 7 - Creating Messages, 1-15
   Step 8 - Simulating Messages, 1-16
   Step 9 - Sending Messages to the ViewMarq Message Display, 1-17
Introduction to ViewMarq Mechanical Design, 3-3
    M
Maintenance and Troubleshooting, 9-1
   ASCII Command String Syntax Error Messages, 9–8
   Diagnostic LED, 9-9
   Error Messages, 9-7
   LED Test. 9-6
   Reboot LED Display, 9-4
   Reset Factory Defaults, 9-5
   Updating Firmware, 9-2
Mechanical Features, 2-14
Message Display Selection and Configure Message Display, 6–2
Message Display Settings, 6-5
   Communication Setting, 6–7
   Global Settings, 6–5
Message Formatting, 5-7
   Character Toolbar, 5–7
   Command String Window, 5-13
   LED Display ID, 5-11
   Line Toolbar, 5-8
```

```
Message Simulator, 5-12
   Other Tools, 5-10
   Scrolling Multiple Lines Together, 5-10
Modbus Function Codes, B-4
Modbus Registers, B-2
   Option Flags, B-4
    N
Non Display Commands, A-20
Numeric Variables, 8-9
   Numeric Variable Setup, 8-9
   Setting Numeric Variable Value, 8-11
    0
Optional Error Checking, 7-44
    P
PC Links, 4-2
   Adding a New Link, 4-5
   Ethernet, 4-3, 4-6
   Serial ASCII, 4-9
   Serial Modbus, 4-9
Power Connections and Specifications, 3-4
   Ambient Temperature, 3–6
   Grounding, 3-6
   Power Connections Cover, 3-4
   Power Installation, 3-4
   Power Supply Removable Terminal Blocks, 3-5
Power Supply and Communication Specifications, 2-7
   AC Power Supply Specifications, 2-8
   Communication Connections, 2-9
   Communication LEDs, 2-13
   External DC Power Supply Requirements, 2-8
   Port 1 RS232 Terminal Block Connection, 2-11
   Port 2 RS-485 Terminal Block Connection, 2-11
```

Port 3 Ethernet Connection, 2-12

```
Power Supply Removable Terminal Blocks, 2-7
   RS-232 Port 1 RJ12 Connector, 2-10
Purpose of the Software, 1-2
Purpose of this Manual, 1-2
    R
Resetting Communications to Factory Default, 4–12, 9–6
    S
Safety Guidelines, 3-2
Saved Messages, 5-4
   Open a Saved Message, 5-5
   Saving the Message, 5-4
Sending Messages from a CLICK PLC, 7-13
   ASCII, 7-14
   Modbus, 7-17
   Optional Error Checking, 7–21
   RS-232, 7-13
   RS-485, 7-13
Sending Messages from a DirectLogic PLC, 7–66
   Embedding the String into PLC memory, 7-68
   Optional Error Checking, 7–73
   Sending Strings by Modbus over Ethernet, 7–76
   Sending Strings by Modbus over Serial, 7-70
Sending Messages from a Do-More PLC, 7-47
   ASCII, 7-48
```

Ethernet, 7-48 Modbus, 7-53 Modbus TCP, 7-63 RS-232, 7-47 RS-485, 7-47

Sending Messages from a PLC to ViewMarq, 7–1

ASCII, 7-5 Modbus, 7-5 Reading the ASCII Reply when using Modbus, 7-6 String Length Limitations with PLC's, 7-6

```
Sending Messages from a Productivity3000 PAC, 7–25
   Embedding the String into PAC memory, 7-27
   Ethernet, 7-25
   Ethernet Modbus TCP, 7-42
   Modbus Serial, 7-34
   Optional Error Checking, 7-38
   RS-232, 7-25
   RS-485, 7-26
   Sending Strings by ASCII over Serial, 7-28
   Sending Strings via Modbus, 7-31
Sending Modbus to Multiple Displays or other Slave Devices., 7–12
Sending Strings from multiple PLC's, 7-11
Specifications, 2-3
   Environmental Specifications, 2-6
   MD4-0112T, 2-3
   MD4-0124T, 2-3
   MD4-0212T, 2-4
   MD4-0224T, 2-4
   MD4-0412T, 2-5
   MD4-0424T, 2-5
String Variables, 8-4
   Setting String Variable Value, 8-6
   String Variable Setup, 8-4
    T
Text Editor Overview, 5-6
   Message Length, 5-6
   Software Purpose, 5–6
   Supported Characters, 5-6
The Software Workspace, 5–3
    U
Using PRINTV instruction (D2-260 or D0-06 only), 7-68
```



Variables, 8-2

Editing a Variable, 8-3

Inserting a Variable, 8-2

ViewMarq Character List, C-2

ViewMarq Commands, A-2

ViewMarq Mounting, 3-10

Chain Mounting, 3-15

Installation Notes, 3-10

Mounting Brackets, 3-12

Mounting Clearance, 3-10

Mounting Position, 3-10

Viewing Angle and Distances, 3-11

Wall Mounting, 3-13



What's in the Box?, 1-4