



# TDM-100 TIMER DISPLAY

## TECHNICAL MANUAL

Version 1.1

July 2006



# TDM-100 Timer Display Technical Manual

## Safety Precautions

### Caution

**Read Instructions:** Read and understand all safety and operating instructions before using the equipment.

**Retain Instructions:** The safety instructions should be kept for future reference.

**Follow Warnings:** Follow all warnings and instructions marked on the equipment or in the user information.

**Avoid Attachments:** Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be hazardous.

### Warning

**Power Sources:** This equipment should be operated only from the power source indicated on the product.

**Servicing:** Refer all servicing to qualified service personnel. There are no user-serviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards.

**Slots and Openings:** If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects.

## Copyright

This technical manual and the equipment, firmware and software described herein are copyrighted by **INTENT DIGITAL** with all rights reserved. Under the Copyright laws, the equipment firmware and software may not be copied in whole or in part without the written consent of **INTENT DIGITAL**, except in the normal use of any software to make backup copies. This technical manual or portions thereof may be copied for personal use only.

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## 1.0 INTRODUCTION


### 1.1 Introduction

Intent Digital's Timer Displays are designed to operate with VoteLynx Voting and Meeting Management System. The flush mount panel is designed to fit into a standard electrical two-gang cutout.

### 1.2 Using This Manual

**Note:** Important information that you should read or be familiar with in order to understand the material being presented next.

**Tip:** A suggestion that will show a shortcut or specific information that will help you understand or best use the ControLynx system.

 Indicates that an action on your part is required in the step by step process of configuring or operating the hardware or software. This may mean setting a jumper, moving the mouse or pressing a key on the keyboard.

### 1.3 Contacting *INTENT DIGITAL*

#### **Technical Support**

You may contact ***INTENT DIGITAL*** directly for technical support by phone, FAX or letter or e-mail. Please feel free to contact us at:

***INTENT DIGITAL Inc.***  
**3104 E. Camelback Road**  
**Suite 445**  
**Phoenix, AZ 85016**  
**Voice: 602-404-0100**  
**Fax: 602-324-4629**  
**Web: [www.intentdigital.com](http://www.intentdigital.com)**

## TDM-100 Timer Display Technical Manual

### Comments and Suggestions

We at **INTENT DIGITAL** would like to encourage you to send comments, questions and suggestions regarding our product line. Please feel free to contact us at the above address.

### **1.4 Warranty**

For a period of one year from the date of purchase as shown on the sales invoice, **INTENT DIGITAL** warrants to the original purchaser that the VoteLynx module, (the "Product") is free from defects in material and workmanship when subjected to normal use and service. If during this one year period, such a defect due to faulty workmanship or materials should occur, the Product will be repaired or replaced (at **INTENT DIGITAL's** discretion) free of charge after the Product is returned, shipping prepaid, to **INTENT DIGITAL**. Units returned for warranty service must be shipped prepaid to **INTENT DIGITAL** for repair or replacement.

Purchaser's exclusive remedy, and **INTENT DIGITAL's** sole obligation for any and all causes of action, claims, loss, property damage, personal injury, or liability, resulting from or related to any malfunction, interruption, or loss of use of the Product or related system is limited to the repair or replacement of the Product under the limited warranty provided herein. **INTENT DIGITAL** shall not be liable for any consequential damages (even if advised of the possibility of the same) or incidental liability or loss. In no event under any legal theory of liability shall **INTENT DIGITAL's** liability for any and all claims arising under or related to this Agreement exceed the purchase price of the Product.



## 2.0 INSTALLATION & OPERATION

### 2.1 Getting Started

#### SUPPLIED HARDWARE AND CABLES

Check to make sure that you have received the following equipment and accessories with each ControLynx module.

- TDM-100 Timer Display
- Technical Manual

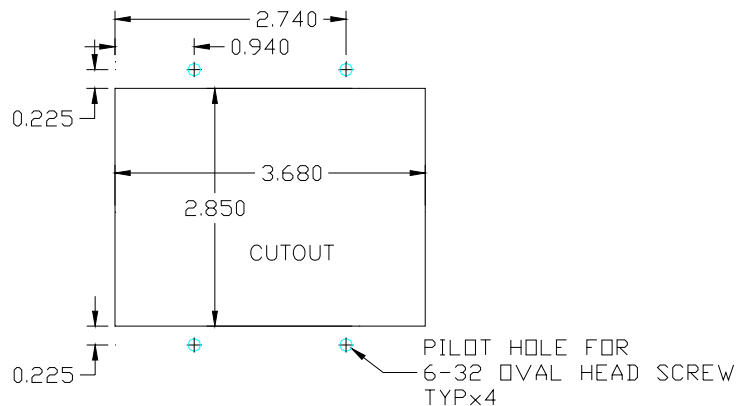
Also included with flush mount version:

- (1) Removable 4 Pin Network Terminal Plug
- (4) Black Philips Flat Head Mounting Screws

If any of these items is missing please contact **INTENT DIGITAL** immediately for replacement.

#### MOUNTING TIMER DISPLAY

The flush mount VoteLynx Timer Display is designed to mount in a standard two gang electrical box or a cutout on a flat tabletop surface using four mounting screws. The panel cutout size required is 3.68" wide by 2.85" high.



## 2.2 Switches & Indicators

### FRONT PANEL INDICATORS

- LED Digits:** Displays either the timer remaining or the elapsed time as determined by the VoteLynx software. Time is displayed as minutes:seconds.
- Red LED:** The red LED lights when the timer count has expired.
- Yellow LED:** The yellow LED lights when the warning or wrap-up time is reached. The green LED will turn off and the yellow LED will remain lit until the red stop LED lights.
- Green LED:** The Green LED lights when the timer count starts and remains lit until the yellow warning or wrap-up LED lights.

### REAR CHASSIS SWITCHES AND INDICATORS

These switches and indicators are located on the rear of the timer display.

- Service LED:** Red LED flashes to indicate that timer display is not yet installed on the VoteLynx network. Service LED is normally in the off state.
- Service Switch:** Press this switch to install the timer display on the VoteLynx network per installation procedure.
- Reset Switch:** Press this switch to reset the timer display during maintenance procedures.

## 2.3 Connector Pinouts

### NETWORK CONNECTIONS:

The table below shows the connections to the four pin network terminal connector. Net A and Net B pins connect to the VoteLynx network. The network connections are polarity independent so the timer display will operate correctly no matter which direction the pins are connected to the network.

Terminal Pin	Connection
1	+12 Volts
2	0 Volts
3	Net A
4	Net B

## 3.0 TECHNICAL INFORMATION

### 3.1 Timer Display Specifications

<b>Dimensions:</b>	4.50" H x 4.50" W x 1.25" D (115 mm x 115 mm x 32 mm)
<b>Weight:</b>	14 oz. (397 g)
<b>Network &amp; Power Connector:</b>	4 Pin 5.08 mm Phoenix style removable terminal block
<b>Front Panel Indicators:</b>	(4) 0.56"H LED display digits (3) 0.8" diameter spherical bright LED's
<b>Operating Temperature Range:</b>	0° to 70° C, non-condensing
<b>Supply Voltage:</b>	12 Volts DC
<b>Operating Current:</b>	100 mA, Resettable Fuse

Specifications subject to change without notice