



February 8, 2005

Richard Bouchard  
University of Maine  
Pleasant Street  
Ft. Kent, ME 04743

Subject: Style 2436 Tower Clock and System - University of Maine - Blake Library

Dear Richard:

Thank you for your interest in Electric Time clocks. In reply to your request, I am sending page 9 of publication 02872/ele & data sheet 483 along with our Standard Terms and Conditions of Sale.

We are pleased to quote on the equipment you requested, as follows:

(1) Style WP-2436-ME, 35" sight opening, round, backlighted, flush mounted, weatherproof clock. These clocks are to be mounted into a 38" diameter opening ( $\pm 3/8"$ ). Please specify wall construction when ordering. Features include: Electric Time Company, Inc. Style B28-MI movement. Translucent milky-white cast acrylic dial, back-lit with high output, long-life fluorescent illumination and necessary ballast. Flat, clear tempered glass crystal. Black dial markings, Style "AJ", and clock hands, Style "WS". Aluminum outer angle and retaining rings to have a matte black polyurethane painted finish.

(1) Type CTRI-99BMI, Automatic Clock Controller with IP65 enclosure - Indoor & Outdoor Use. Automatically resets clock after power failures and for daylight savings time (if required). Precision Quartz Time base 4 minutes per year maximum drift. Optional GPS - no drift. Built in 100 year daylight savings time calendar. 2 Line 16 character back lighted LCD display. ETL listed to UL 863. Power Failure Event logging. Standard MI output - 4 clocks maximum standard. Standard 24VDC RP output -20 clocks maximum. Sweep Second hand output. Hour Strike Capability. RS-232 and RS-485 output ports. 24 VAC hour strike output - configurable pulse output.

(1) PC-25 Photoelectric Cell to control illumination.

All of the above for the net (BUY) price of \$3,641.00, plus shipping and handling. This price does not include any sales taxes. Freight charges to Fort Kent Maine will be \$780.00.

The quotation above is for our standard dial markings and hands, the original proposal had "MS" hands with arrow tails which are available at no additional cost.

ELECTRIC TIME COMPANY, INC. 45 WEST STREET - MEDFORD, MA USA 02052  
PHONE 508-359-4396 - FAX 508-359-4482 SALES@ELECTRICTIME.COM  
HTTP://WWW.ELECTRICTIME.COM

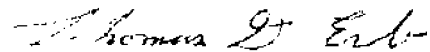
February 8, 2005

As an option we can offer our CTR1-GPS-RECEIVER-KIT GPS receiver kit for an additional \$395.00, this will provide time accurate to 1 microsecond  $1 \times 10^{-6}$ . This will enable the clock to synchronize with National Bureau Standard Atomic Clock.

Since this equipment is custom built, on orders over \$1000.00 we require a 40% deposit. Delivery is typically 10 to 15 weeks after receipt of purchase order, deposit and release, F.O.B., Medfield, MA. Please see enclosed Standard Terms and Conditions of Sale.

If I can be of any further assistance please let me know.

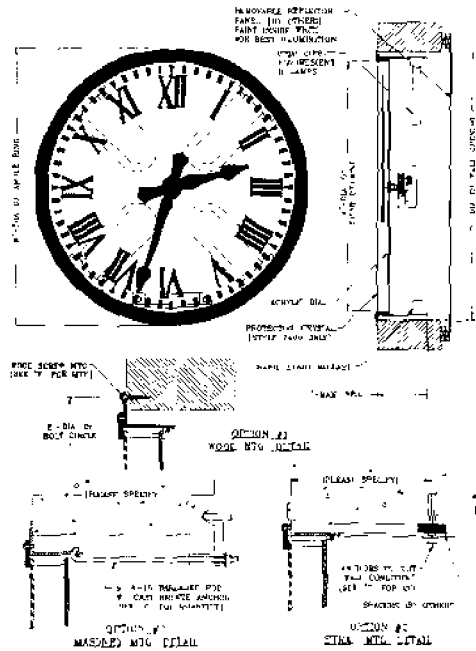
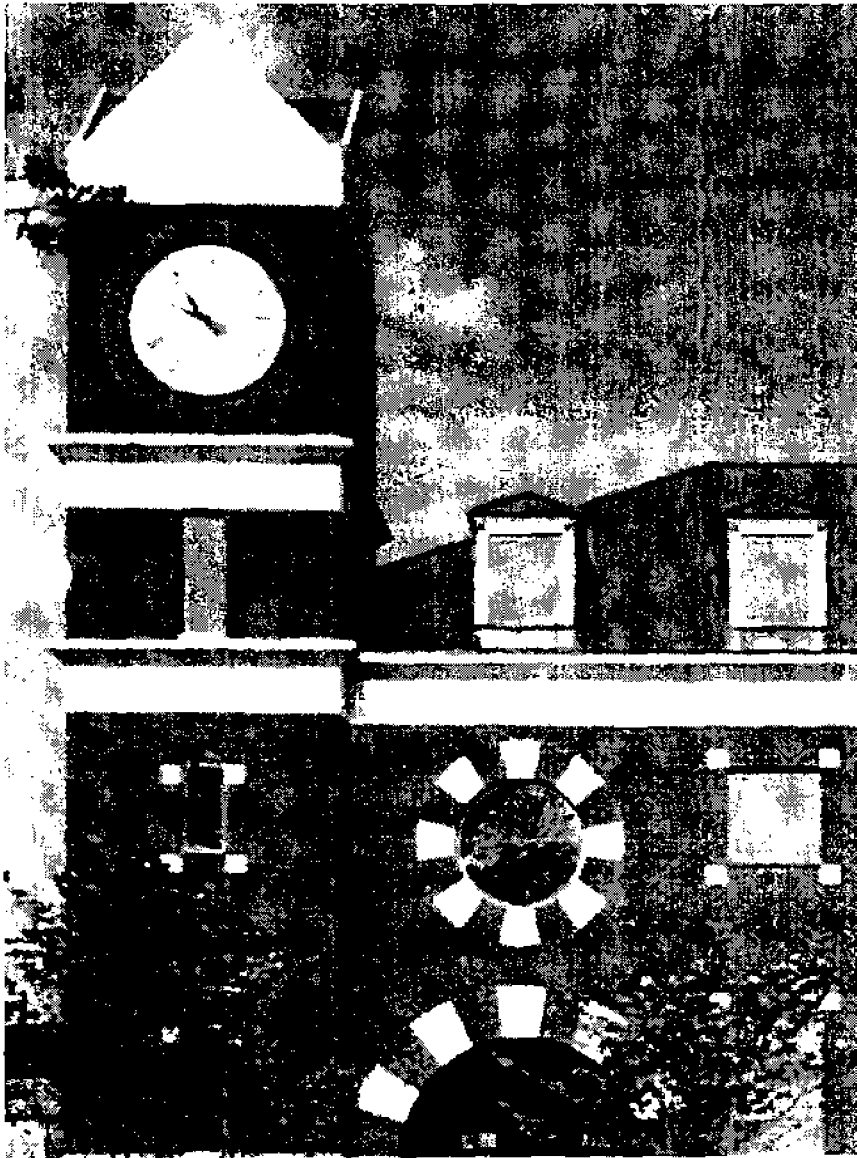
Sincerely,



Thomas D. Erb  
President  
tde@electrictime.com

**2400/4600 FLUSH-THROUGH THE WALL ILLUMINATED CLOCKS.**

Outdoor clocks are available in 18" to 50" diam. (Style 2-39) and 12" to 60" dia. (4600). Clocks are available in Colonial Type MS-A or in a variety of other styles. Clocks are available in a variety of finishes and dial markings. Clocks are available in a variety of mounting options. All specifications shown shown are approximate and subject to change without notice. All specifications shown shown are approximate and subject to change without notice. All specifications shown shown are approximate and subject to change without notice.



**PHOTO LEFT:**  
Pitt Street Centre - Alexandria, VA architect - Rust Orling & Neale Architects - Alexandria, VA

**STANDARD SHORT FORM SPECIFICATIONS PHOTOGRAPH LEFT:**

Outdoor Style 4600 Illuminated clock, 64" in diameter. Colonial Type MS-A hands with arrow tails. Type A dial markings. Single piece acrylic dial. Aluminum mounting & retaining rings. Hands, rings, and dial markings to have a matte black painted finish. High output fluorescent tubes to be supplied so that illumination is uniform. Low temperature high-output ballast. Illumination to be an integral part of the clock. Type 99B remote reset control to be located in building electrical room. Clock to be as manufactured by Electric Time Company, Inc., 45 West Street, Medford, MA 02052 USA. (508) 359-4396.

Style	A	B	C	D	E	F	G	H	I
2418	17 1/2"	21 1/2"	11 1/4"	19 1/4"	20 1/2"	6"	4"	NEON	
2424	23 1/2"	27 1/2"	15 1/4"	25 1/4"	26 1/2"	6"	4"	NEON	
2430	29 1/2"	34 1/2"	13 1/4"	32 1/4"	33 1/2"	6"	4"	NEON	
2436	35 1/2"	40 1/2"	13"	38 1/4"	39 1/2"	8"	4"		
2442	41 1/2"	46 1/2"	10"	44 1/4"	45 1/2"	8"	4"		
2448	47 1/2"	52 1/2"	10"	50 1/4"	51 1/2"	10"	6"		
2454	53 1/2"	58 1/2"	10"	56 1/4"	57 1/2"	10"	6"		
2460	59 1/2"	64 1/2"	10"	62 1/4"	64 1/2"	12"	6"		
4672	72 1/2"	78 1/2"	11 1/4"	75 1/4"	77 1/2"	21"	8"		
4684	78 1/2"	84 1/2"	11 1/4"	81 1/4"	83 1/2"	21"	8"		
4696	94 1/2"	100 1/2"	11 1/4"	91 1/4"	93 1/2"	26"	12"		



45 West Street, Medfield, MA, USA 02052

p: 508.359.4396 f: 508.359.4482

www.electrictime.com

## Standard Terms and Conditions of Sale

**TAXES** Unless otherwise stated, prices are exclusive of applicable sales, excise or similar taxes of federal, state or local government. As a Massachusetts corporation, we collect only Massachusetts taxes. Any other applicable taxes must be reported and paid directly by the purchaser.

**INSURANCE** Any insurance requirements made by you which result in an expense to Electric Time Co., Inc., will be in addition to any published or quoted prices. Copies of insurance certificates are available on request. To be named as an additional insured for a specific project, there will be an additional \$250.00 one-time charge.

**PRICES** All prices are in U.S. dollars and payment is to be in U.S. dollars. Unless otherwise stated, if we provide a written quotation, we hold quoted prices for 90 days. Prices are subject to change without notice. It is our policy not to review and execute contracts for orders under \$25,000.

**SHIPMENTS** Unless otherwise stated, all shipments are made F.O.B., Medfield, MA, USA. All quoted lead times are approximate based upon current and projected work loads. Shipments will be made the least expensive and fastest way, taking into consideration the delivery and urgent need of your order, unless otherwise stated on your order. Prepaid freight charges will be added to invoices.

**CLAIMS** Upon acceptance from Electric Time Co., Inc. by the carrier, the material becomes the property of the consignee. All claims for damage, breakage or loss, concealed or obvious, must be made to the carrier by the consignee. Claims of short shipment must be made to Electric Time Co., Inc. within five (5) days of receipt of material.

**PAYMENT** Orders under \$1,000.00 from customers without established credit will be shipped C.O.D. unless full payment accompanies order. Since all the equipment we manufacture is custom built, we require a 40% deposit on any order over \$1,000.00. To establish an account with us, we require three credit references and the name of your bank with full addresses. If you do not care to open an account, we can ship upon receipt of final payment, or C.O.D. All payments are due NET 10 days upon receipt of invoice. Final payment is due within 30 days after shipment of clocks invoiced. After 30 days, there will be a 1-1/2% interest charge per month on any unpaid balance. Minimum invoice charge is \$55.00. For international sales, payment is to be made by wire transfer to:

Bank ABA #: 0110 00390

Recipient's Account #: 520-05994

Bank name & Address: Fleet  
Boston, MA USA

Recipient's Name & Address: Electric Time Co., Inc.  
45 West Street  
Medfield, MA 02052 USA

**WARRANTY** All equipment is sold subject to the mutual agreement that it is warranted by Electric Time Co., Inc. to be free from defects of material and construction, but our liability in connection with it shall be limited to replacing or repairing without charge at our factory any material or construction defects which become apparent within three years from the date on which new equipment is shipped, that we shall have no liability for damages of any kind arising from the installation and/or use of the apparatus by anyone, and that the purchaser by the acceptance of the equipment will assume all liability for any damages which may result from its use or misuse by the purchaser, his or its employees or by others. There is no guarantee or warranty or liability except as here stated.

**RETURNS** Since most of our clocks are custom built, in general, returns are not accepted. Standard stock items may be returned for credit, subject to inspection and acceptance, if prior authorization has been obtained from Electric Time Co., Inc. There will be a 20% restocking charge on all standard catalog items.

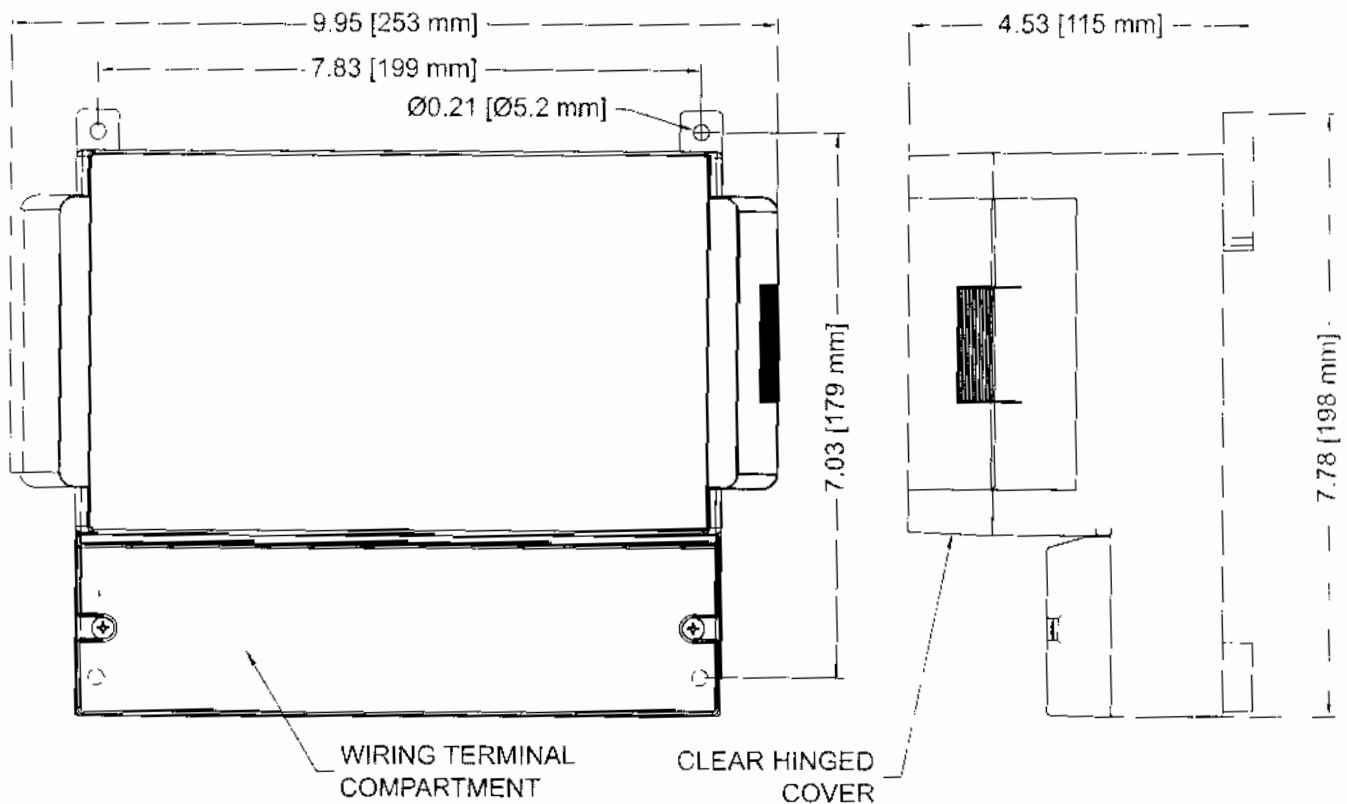
**FINISHES** Our standard paint colors are matte black, off-white, bright-white, satin aluminum, medium bronze (Duranodic #312), dark bronze (Duranodic #313), forest green, gold and red. Other colors and finishes are available at additional cost



## 99B-MI Clock Controller

The 99B-MI Clock Controller is a microprocessor based master clock that provides completely automatic control of Electric Time minute impulse clocks.

- Provides "Minute Impulse" (MI) Control (Clock hands index from one minute to the next)
- Automatically resets clocks after power failures (Resets at 6X speed)
- Automatically resets clocks for daylight savings time (if required)
- Precision Quartz Time Base
- Optional GPS interface for ultimate time keeping accuracy
- 10 Year Battery Backup for time base
- For indoor or outdoor use - Protected to IP65
- ETL listed to UL 863

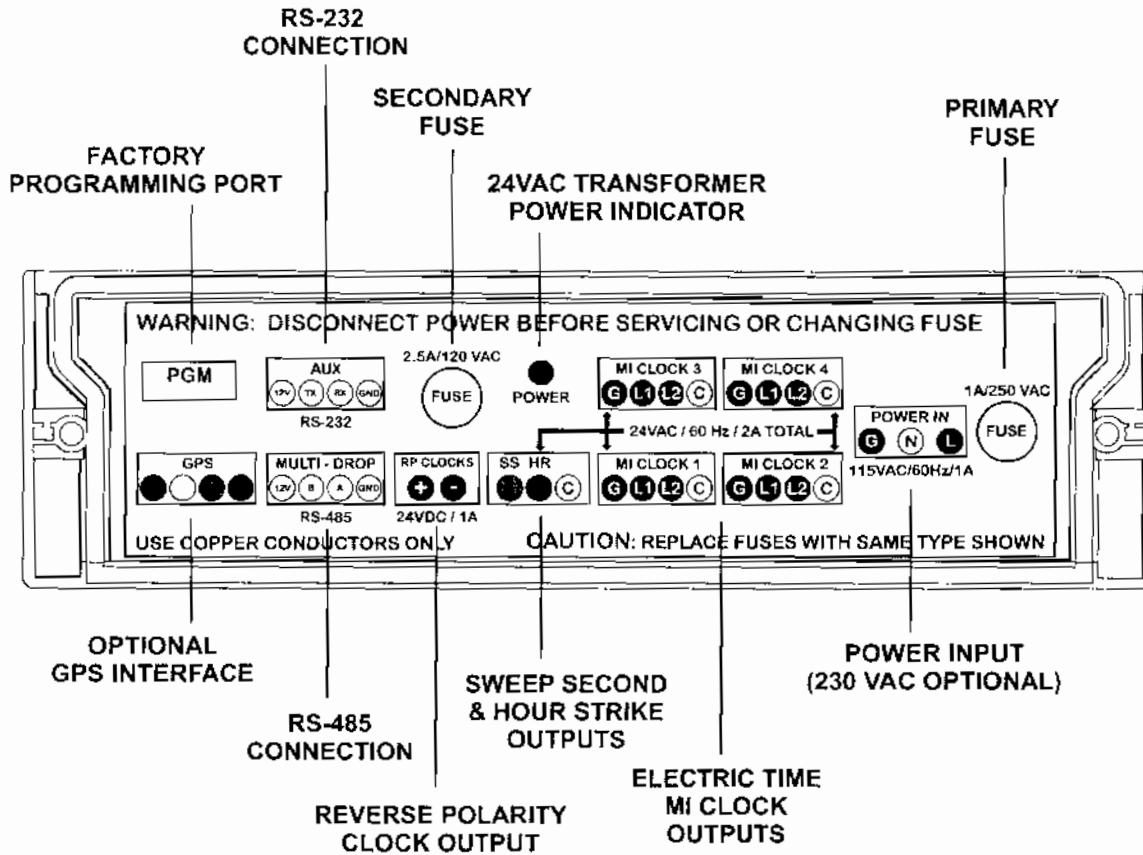


**99B-MI Specifications**

DIMENSIONS IN INCHES [MILLIMETERS]

<b>Input Power</b>	115VAC/50 or 60Hz/1A or 230VAC/50 or 60Hz/0.5A (Factory Preset)
<b>Drift</b>	+/- 4 min / year (standard), NONE (GPS)
<b>Clock Outputs</b>	<p>24VAC Minute Impulse</p> <ul style="list-style-type: none"> <li>• Controls up to (4) Minute Impulse (MI) Clocks</li> </ul> <p>24VDC Reverse Polarity</p> <ul style="list-style-type: none"> <li>• Controls up to (20) Reverse Polarity (RP) Clocks</li> </ul> <p>24VAC Sweep Second line (continuous power)</p> <ul style="list-style-type: none"> <li>• Controls up to (2) MI Clocks with Sweep Second Hands</li> </ul> <p>**For multiple clock arrays, contact Electric Time to verify maximum electrical loads on 99B-MI</p>
<b>Event Outputs</b>	24VAC Hour Strike (configurable pulse output)
<b>Communication</b>	RS-232 port, RS-485 port

## Terminal Compartment Layout



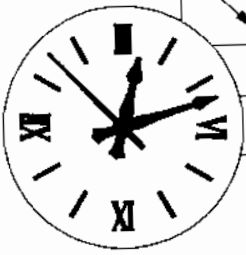
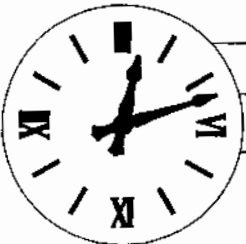
Connection for 1/2" conduit provided for power input & MI Outputs  
Cable gland strain relief provided for all other connections

Maximum Minute Impulse control wire run 350 feet

Reference Electric Time Company Manual #274 for complete operation and installation instructions

**99B-MI  
CLOCK  
CONTROLLER**

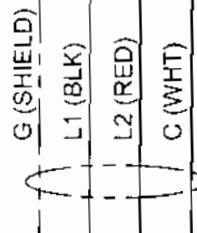
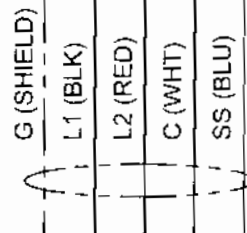
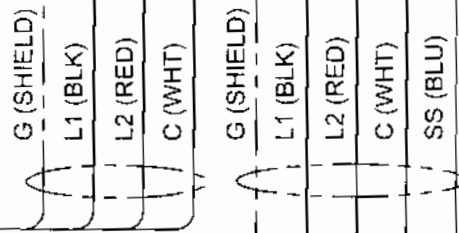
"MI - SS" CLOCK(s)  
(SWEEP SECOND HAND)



(1A MAX)

115VAC / 60Hz

(MI OUTPUTS - 24VAC / 2A MAX)



TO ADDITIONAL CLOCKS

CLASS II (24VAC)  
16 AWG RECOMMENDED

**SPECIFICATIONS**

- 1) CONTROLS UP TO (2) "MI-SS" CLOCKS,  
(4) CLOCKS TOTAL
- 2) MAX CONTROL WIRE RUN 350'
- 3) "HOME RUNS" REQUIRED FROM EACH CLOCK
- 4) DEDICATED 115VAC BRANCH CIRCUIT MUST  
BE PROVIDED FOR 99B-MI CONTROLLER
- 5) CONNECTIONS FOR 1/2" CONDUIT PROVIDED

"HOME RUNS" REQUIRED  
ALL "MI" OR "MI-SS" CLOCKS

"CMI" PC BOARD  
(1 PER CLOCK)  
"SMCB" PC BOARD  
(1 PER SS CLOCK)

VIEW LASER		P MTL		M:\ACAD10\A-7960.DWG	
TITLE "MI" WIRING DIAGRAM 99B-MI CLOCK CONTROLLER		DATE 10-23-02	DRAWN MJE	APP'D TDE	REVISIONS
SCALE NONE		DATE 10-23-02		DRAWING A-7960-1	
COMPANY electric time medfield, ma					