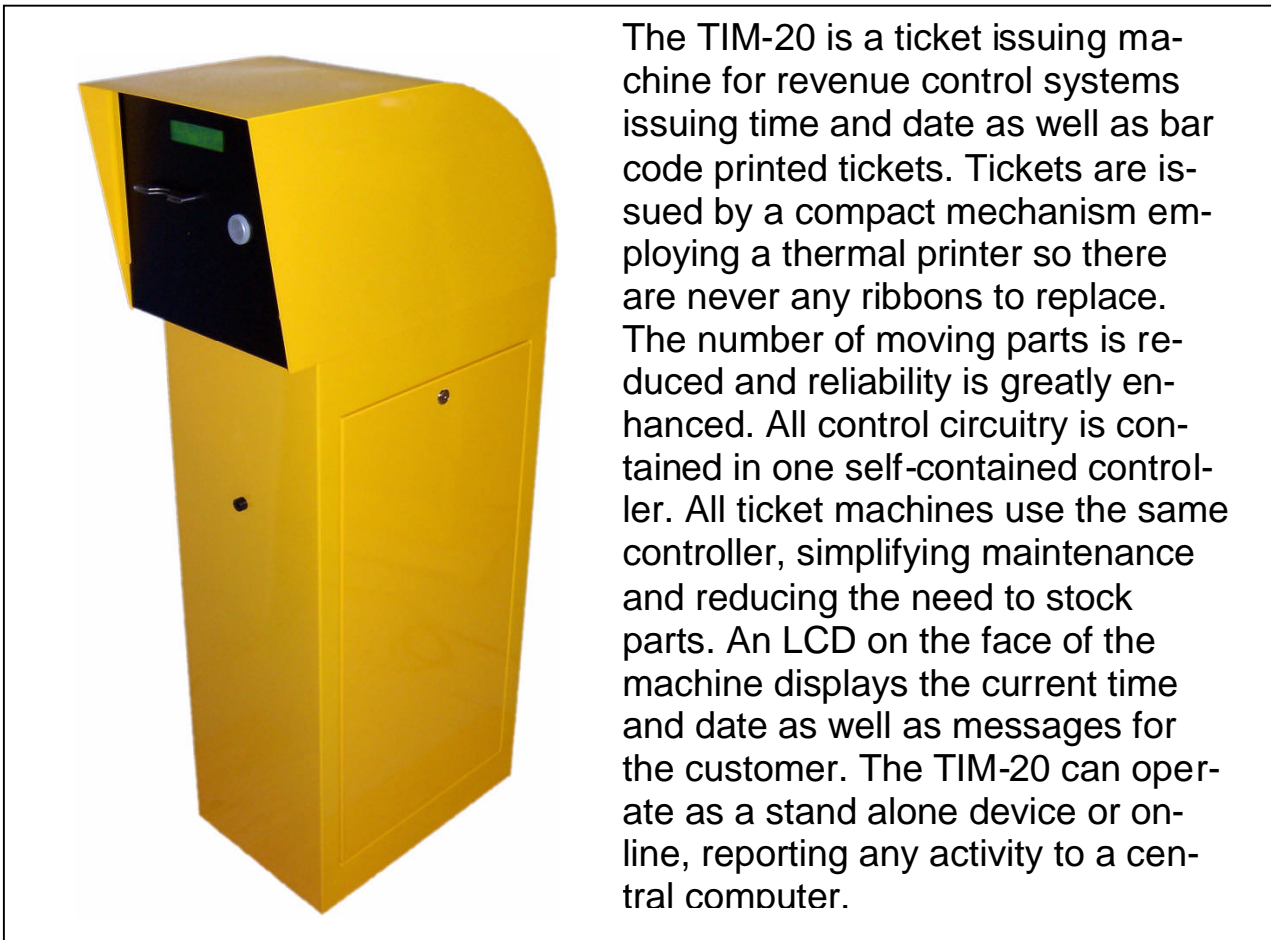


# TICKET ISSUING MACHINE TIM-20

## Product Specification



The TIM-20 is a ticket issuing machine for revenue control systems issuing time and date as well as bar code printed tickets. Tickets are issued by a compact mechanism employing a thermal printer so there are never any ribbons to replace. The number of moving parts is reduced and reliability is greatly enhanced. All control circuitry is contained in one self-contained controller. All ticket machines use the same controller, simplifying maintenance and reducing the need to stock parts. An LCD on the face of the machine displays the current time and date as well as messages for the customer. The TIM-20 can operate as a stand alone device or on-line, reporting any activity to a central computer.

### A. HOUSING

The housing shall be weatherproof and constructed of heavy gauge steel not less than #14 gauge. All seams and joints shall be electric bead welds. No spot welds shall be acceptable for base construction.

The base of the housing shall be provided with risers which shall keep the floor of the base off the mounting surface in order to provide air circulation and water drainage beneath the housing. This feature shall be provided to lengthen the life of the housing. Access to the inside of the base shall be provided by 2 flush, full length gasketed, key locked doors. One door shall access the ticket magazine, one door shall access the machines electronic controls.

The finish shall be a powder coat paint finish applied over a suitable primer.

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The ticket magazine shall be removable in order to speed restocking of tickets. The capacity of the magazine shall be a minimum of 10000 fan-folded tickets. The magazine shall be capable of holding tickets from 2" to 3" in width.

The housing shall contain 2 separately locked compartments; the bottom (base) compartment containing the tickets and ticket issuing machine controller and the top compartment containing the issuing mechanism.

The hood or top section of the housing shall be hinged for easy access to the mechanism and electrical connections.

### **B. TICKET ISSUING MECHANISM**

The mechanism shall be one complete assembly providing all necessary connections to the controller. The printing method shall be thermal.

To prevent rust and corrosion, all mechanism components shall be plated. All mounting bolts, hardware, etc., shall also be plated.

The mechanism shall be capable of issuing a standard 2" X 5" ticket at a rate of 60 per minute. Tickets shall be cut off before being issued. No portion of the ticket shall be in a position permitting handling before it is cut off completely.

A sensor in the mouth of the ticket machine shall prohibit issuing of any additional tickets as long as a ticket remains in the mouth of the machine.

The current time, date and lane number of the ticket machine shall be printed on the ticket in man readable form at the time it is issued. The TIM-20 shall also be able to encode this information on the tickets in the form of a bar code. Additional printing (custom messages) shall also be available on request.

### **C. TICKET ISSUING CONTROLLER**

All control logic shall be contained in one easily removable circuit board. All field wiring to the controller shall be made on easily accessible screw terminals. All controllers shall be identical and completely interchangeable with any other controller.

A 32 character LCD display on the face of the mechanism shall display the current time and date. When a ticket is issued, the LCD shall display the message: "PLEASE TAKE TICKET". The LCD shall incorporate an LED back lighting and shall be visible under all lighting conditions. Custom LCD messages shall be available upon request.

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Time, date and operating parameters shall be programmed via a hand held key pad. The key pad shall plug directly into the controller board. The controller shall contain a battery backup in case of power failure and shall maintain the time, date and all programming for a minimum of 72 hours.

The controller shall contain inputs and outputs for connection and control of peripheral equipment. The following inputs shall be provided:

- \* Loop occupied (arming)
- \* Issue ticket
- \* Low ticket sensor
- \* Inhibit (stops issuing of tickets in a lot full or out of tickets condition)

The following outputs shall be provided:

- \* Raise gate
- \* Out of service (can activate a full sign or switch red/green light)

### D. COMMUNICATION TO HOST COMPUTER

Optionally, the Ticket Issuing Controller shall be able to communicate via RS-485 with a host system. The host system shall be capable of monitoring the status of the ticket machine, remote programming and control, and maintaining the correct time and date.

### E. TECHNICAL DATA

Ticket	Thermal printing, 2" x 5" standard custom sizes available
Encoding Method	Bar Code
Printing Method	Thermal
Mechanical	48" H X 12" W X 21" D (1218mm X 305mm X 567mm)
Weight	110 lbs. (50 Kg)
Power	110-220VAC, 50/60Hz, 3Amps
Environmental	Operating temperature: -5 deg. F to 160 deg. F (-20 deg. C to 70 deg. C)

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Ticket Issuing Machine Housing Dimensions:

