

# ECMG

## **Product Name**

Electronically Controlled Motorized Gate - ECMG

## **Manufacturer**

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**Product Description:** The ECMG is a microprocessor controlled motorized gate that automatically self-opens and closes. It is designed to provide patron entry and exit at offices, retail stores, supermarkets and commercial facilities. The gate provides single or bi-directional operation and has adjustable opening/closing and dwell time controls. Gate activation can be provided by push button, floor mat, card reader access systems or any device that provides a momentary dry contact.

## **Models:**

- **ECMG-1** – Gate arm opens in a single direction – 36” opening
- **ECMG-2** – Gate arm opens both directions – 36” opening

**Materials:** All tubing and sheet metal meets appropriate ASTM Standards.

## **Mechanical Components:**

- The **Cabinet and Access Cover** is constructed from formed and welded 12 gauge cold rolled sheet metal. The cabinet is welded to a frame and all exterior welds are ground smooth and polished.
- The **Lid** is fabricated from 12 gauge #304 stainless steel formed and welded. Exposed welds are ground smooth and polished.
- The **Gate Arm** is constructed of 1.5” x 16 gauge stainless steel tubing. The tubing is formed into an elongated "U" and has two .625” diameter cross-rods welded to the inside of the gate.

**Gate Control:** The movement of the gate arm is controlled by a microprocessor driven motor and gear assembly that are moved into the appropriate open or closed position based on pre-programmed settings. The gate opening and closing speed is adjustable. Safety features include an emergency breakaway mechanism, plus electronic sensing and controls that stop movement of the gate arm when it is obstructed during the opening or closing cycle.

**Activation:** Standard activation is achieved by supplying a momentary dry contact. The activation device should be a normally open switch or relay capable of providing a dry contact (no added voltage required).

**Electrical Components:** The ECMG requires standard 110 VAC, which is stepped down to 12 VDC. Maximum current draw is 1.5A. An externally mounted power switch/circuit breaker is included.

**Options:** Available options include:

- **Push Button** - A remotely mounted push-button provides a dry contact output when depressed to provide gate activation.
- **Activation Mat** – Pressure sensitive mat provides a dry contact output when stepped on to provide gate activation by pedestrians.

**Size:** ECMG units have an overall cabinet height of 34". From the floor to the top of the gate, the gate height is 36". The cabinet dimensions are 34" high, 15" length, and 10" width. The gate arm from the inside of the cabinet to the end of the gate is 36".

**Finishes:** The ECMG is available with the following finishes:

- **Powder Coated** -- Available in a wide variety of colors. The cabinet is sand blasted to prepare for the powder coating finish and the powder is electrostatically applied, then baked to assure proper curing and adhesion. The stainless steel lid is not normally coated.
- **Stainless Steel** – All external fabricated materials are composed of #304 stainless steel, polished to a #4 satin finish.

**Shipping:** ECMG gates are shipped in two sections: the cabinet and gate arm. Each gate includes mounting hardware (anchors, bolts, washers, etc.) to mount the units to a concrete floor. Alvarado ships product throughout the world.

**Installation:** The Gates must be installed on a firm foundation with allowance for required power and signal cabling. The gate must be installed level. No imbedded fasteners are needed for installation. Installation should be performed by a skilled installer following the manufacturer's directions and instructions (supplied with the gate).

**Warranty:** Alvarado Manufacturing Co., Inc. warrants the ECMG, from defects in material or workmanship, for the period of ONE YEAR from date of shipment. Complete details of the warranty are available from Alvarado by request.

**Technical Services:** Technical information is available from Alvarado Manufacturing Co., Inc., representatives, distributors, and dealers.