

UNIVERSAL GATE UG-141

Product Specification



Barrier gate for standard parking applications. The gate arm is directly connected to the gear-motor by a steel shaft. This eliminates the need for belts and chains. Harmonic crank motion eliminates the need for mechanical brakes. All gate control circuitry is contained in sealed, plug-in controller that can be replaced in seconds. Every gate controller is identical and is completely interchangeable, reducing maintenance requirements and the need to stock parts. The Universal Gate will work in conjunction with any ticket issuing machines, card readers or loop detectors offering the highest degree of security and flexibility with the lowest maintenance costs.

A. HOUSING

The housing shall be weather proof and constructed of heavy gauge steel not less than #14. All seams, joints and supports shall be electric bead weld. Spot welds are not acceptable for housing construction. Access to the motor compartment shall be provided by a removable top cover secured by latches located inside the housing. Access to the interior of the housing shall be provided by a full length gasketed key locked door. The door and top shall be designed to retard unauthorized entry, tampering and vandalism. An opening of 6" X 12" shall be provided at the bottom of the housing for conduits and field wiring. The gate shall be painted in a powder coat finish applied over a suitable primer.

B. CONTROL CIRCUITRY

All control circuitry, logic, motor starting circuitry, etc., shall be contained in one easily removable sealed housing hereinafter referred to as the gate controller. All electrical

UNIVERSAL GATE UG-141

Product Specification



connections to the gate controller shall be made with plugable terminal blocks. One standard gate controller shall be capable of providing all system logic as well as manual functions. The gate controller shall provide inputs for connection of any peripheral equipment such as loop detectors, ticket machines, card readers, etc. The operating mode of the gate shall be determined by routing the control wires of these devices to their proper inputs. No re-programming of the gate controller shall be necessary. A manual UP/DOWN switch shall be provided.

C. GEAR MOTOR

The gate arm drive assembly shall be directly gear driven by a gear motor. No belt, pulley, or chain drive shall be acceptable. The 1/3 H. P. motor shall conform to NEHA standards. The motor shall be instantly reversible electrically via bi-directional solid state AC switches driven by solid state trigger circuits located inside the gate controller. No mechanical stops, breaks, clutches, etc., shall be acceptable. Vertical and horizontal gate arm stopping positions shall be controlled by independently adjustable micro-switches. The micro-switch assembly shall be located on the gear motor. Provisions shall be made for easy field adjustment. It shall be possible to open the gate manually by means of a hand crank in case of power failure.

D. GATE ARM

Gate arm length shall be a maximum of 12 feet. The gate arm shall be clamped to the unit by means of a screw on bracket in order to provide a break-away feature. Remounting of gate arms shall not require the drilling of holes.

E. OPTIONS

1. An articulating gate arm shall be provided for installations with limited overhead clearance. The gate arm shall be two wooden pieces driven and firmly supported by metal side brackets and a single adjustable steel rod. Wood side brackets shall not be acceptable.
2. A gate arm rebound feature shall be provided in-case an object is struck by the gate arm. If the gate arm comes into contact with an object during the closing cycle, sufficient non-destructive pressure shall cause the gate motor to instantly reverse and return the gate arm to the full open position. Pressure applied to the gate arm while in the full closed position shall not activate the motor to raise the arm. The rebound sensor shall be a part of the gate arm drive shaft contained within the locked gate housing. Positive electrical contact of this feature shall be provided to prevent recycling. A timer can be

UNIVERSAL GATE UG-141

Product Specification



incorporated in the gate circuitry to automatically lower the gate arm after a rebound activation providing the closing loop is not occupied by a vehicle.

3. A heater controlled by a thermostat shall be provided for installations operating in cold climates.

F. TECHNICAL DATA

Housing	weather proof #14 Ga steel construction flush, tamper proof full length door removable hood for easy access off the ground rust resistant feet powder coat finish
Motor drive	1/3 HP heavy duty motor direct drive
Gate arm	wooden arm up to 12ft. (3.5m) PVC or aluminum arms optional
Control circuitry	sealed, self-contained plug-in controller
Power	110VAC, 60Hz, 10Amps (220VAC, 50Hz, 6Amps optional)
Environmental	Operating temperature: -5 ⁰ F to 160 ⁰ F (-20 ⁰ C to 70 ⁰ C)
Mechanical	46" H X 18" W X 12" D (1168mm X 457mm X 305mm)
Weight	170 lbs. (77 Kg)

UNIVERSAL GATE UG-141

Product Specification



Universal Gate Housing Dimensions:

