

## 087400S02 ACCESS CONTROL HARDWARE Automatic Door Operators

### TECHNICAL SPECIFICATIONS (SWINGING DOOR)

#### 1. SCOPE

Furnish \_\_\_\_\_ automatic door operators:  
\_\_\_\_\_ in the \_\_\_\_\_ Building.

#### 2. GENERAL

1. Site Visit: Vendor shall visit the site to determine site conditions and guarantee correct operator and related materials for the job. Anyone wishing to visit the site may do so during normal working hours and any questions arising shall be referred to \_\_\_\_\_ or his appointed representative at \_\_\_\_\_, University of Kentucky.
2. Limited Warranty: Power operators and controls shall be guaranteed for a period of one (1) year from date of installation against defects in material and/or workmanship. Successful vendor will be on 24 hour call during this warranty period to provide immediate service.

#### 3. OPERATOR

"GT System 500 Dual Access": manufactured by Gyro Tech, Inc., or equal.  
\_\_\_\_\_ or his appointed representative shall determine "equal" equipment.

1. Mode of Operation: Gyro-Swing operator shall open the door by energizing the motor and shall stop the door by electrically reducing the voltage and stalling the motor against a mechanical stop. The door shall close by means of spring energy, and the closing shall be controlled by the gear system and the motor being used as a dynamic brake without power. System shall operate as manual door control when not being used as an automatic. Manual operation shall require less than 12 lbs. of force applied to door stile. Opening and closing speeds shall be adjustable. The power operator shall be a self-contained gear transmission and shall not require any fluids or gases (under pressure) in the operation of opening and closing door.
2. Operator Housing: Gyro Tech housing shall be a 5-1/2" wide x 5" high aluminum extrusions with finished end caps and shall be prepared for mounting to new or existing door frames. All structural sections shall have a minimum thickness of .146" and shall be fabricated of 6063-T5 aluminum alloy. The aluminum shall match existing aluminum in the building.
3. Gyro-Swing Power Operator: Completely assembled and sealed unit which shall include a helical gear drive transmission, overriding clutch, mechanical spring and bearings all located in a cast aluminum housing and filled with lubricant for extreme temperatures. Attached to the transmission system will be a DC shunt-wound permanent magnet motor with sealed ball bearings. The motor shall operate from a 115 volt AC power supply and require less than 5 amps at full power stall. The complete unit shall be resilient mounted with provisions for easy replacement without removing door from pivots or frame.

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4. **Electronic Control:** Self-contained unit with quick connect plugs, including necessary transformers, relays, rectifiers, and other electronic components for proper operation and switching of automatic power operation. Relays shall be a plug-in type for individual replacement. All connecting harnesses shall have interlocking plugs. The control shall also include time delay for normal cycle. Control shall include safe-swing circuit as optional switching which automatically limits power and slows door when approached from passive side. Control shall also include adjustable (0-60 second) time delay module.
5. **Connecting Hardware:** Connect conversion unit (CU) drive arm to inswing door with a urethane covered roller, which shall ride in a track fabricated of 6061-T6 aluminum alloy attached to the top door rail where required for pull type operation. Outswing doors shall be connected to operator by a two-piece drive arm with self-aligning rod ends and connecting door bracket for push-type operation.
6. **Activating Device:** Automatic door operators shall be activated by either of two (2) wall switches. Switches shall be six-inch (6") diameter stainless steel, surface or flush mounted as manufactured by Lanson Industries, Inc., Greendale, Wisconsin. Handicap logo and "Push To Open" shall be engraved on faceplate. (No substitute as to switch design will be accepted.)