



## TORMAX TTX II Low Energy Handicap Swing Door Operator – Bottom Load Design

### Unit Features

- Low Energy Swing Door Operator - Meets or Exceeds ANSI Standard A156.19
- Power Open Spring Close - Functions as a Manual Door Closer With Loss of Power
- Transmission Consists of a Forged Rack and Pinion Compression Spring Assembly With a Recirculating Ball Screw - Eliminates Free-Wheeling of the Operator in Windy Environments (no gears to wear or leaking oil)
- Fractional DC Motor With Built-In Motor Protection Circuit - Interrupts Current to Motor if Door is Blocked Open
- Rubber Isolation Pads - Provides for Smooth and Silent Operation (less than 70 DB)
- Unique Conical/Hexagonal Shaped Stainless Steel Output Shaft - Eliminates Door Arm Slippage
- Rated for Interior and Exterior Doors up to 48" Wide x 220 Lbs. (1219 x 100KG)
- Factory Assembled, Tested and Shipped as a Complete Unit
- Models Available to Automate Single, Simultaneous Pair and Double Egress Applications
- Outswing Door Arm - For Use With Butt Hung, Offset and Center Pivot Doors.
- Telescoping Outswing Door Arm - Will Accommodate Door Reveal Ranging From 0"-9 7/8" (0-251)
- Inswing Door Arm and Slide Track - For Use With Butt Hung, Offset Pivot Doors (0") Reveal
- Optional Deep Reveal Inswing Door Arm and Slide Track - Center Pivot or Double Egress Doors, 0"-6" (0-152) Reveal
- Bottom Load Design – The Ultimate Solution to Maintaining the Architectural Design for Doors That Have Little or No Head Room
- Bottom Load Design – Factory Prepared for Quick and Easy Installation
- Operator is Accessible From the Underside – Allows for the Header Case to be Partially or Fully Concealed in the Ceiling Above the Door.
- Aluminum "L" End Cap Mounting Brackets – For Ease of Unit Mounting
- Compact Visible Bottom Load Design – Header Profile 5 3/4" H x 5 1/2" W x 31 1/2" L (146 H x 140 W x 800 L)
- Optional Full Door Width Header Profile Available – Provides Uniform Sightlines
- Outswing Door Opening Angle - Adjustable (0-110 degrees)
- Inswing Door Opening Angle - Adjustable (0-95 degrees)
- Built-In Spring Loaded Adjustable Operator End Stop - No External Door Stop Required
- Three Operating Modes (On/Off/Hold Open) - Pre-wired Switch as Standard With Each Unit
- Self-Learning Microprocessor Controller w/On-Board Digital Programming – Provides Flexibility During System Configuration
- Electronic Reversing for Door Obstruction in the Opening Direction - Door Will Stop and Reverse Close

- Electronic Reversing for Door Obstruction in the Closing Direction - Door Will Stop and Reverse Open
- Selectable (on/off) Push and Pull Activation - Programmable
- Manual Door Movement Required for Push and Pull Activation - Programmable
- Self-Learning Microprocessor Controller Shall Utilize “Teach-In” Program for the Initial Door Set-Up for Both “Push and Pull” and “Automatic Door Operation” - Microprocessor Establishes Door Opening and Closing Speed, Opening Angle and Hold Open Time without the Use of Cams and Switches
- No Mechanical Switches and/or Cams Required for Door Position - Eliminates Costly Service and Down Time
- Independently Fine-Tune Door Motion Elements (door opening and closing speeds, opening angle and hold open time 0-6000s) Post “Teach-In” - Programmable
- Adjustable Latch Check Positioning - Programmable
- Adjustable Latch Check Speed - Programmable
- Adjustable Opening Force Limitation - Programmable
- Adjustable Opening and Closing Speed - Programmable
- Sequential Operation (Push to Open/Push to Close Operation) - Programmable
- On-Board Power Supply Output With Overload Protection (24VDC .75A Max.) as Standard for Activation, Safety Sensor and Electric Strike - No Auxiliary Transformer Required
- On-Board Output for 24VDC Electric Strike as Standard With (.2-3.6S) Delay - Programmable
- One On-Board Output (24VDC) for Door Open or Door Closed Position Status - Programmable
- On-Board Input for Key Switch - Remains Enabled in “Off” Mode for Access Control Integration
- On-Board Input for Swing Side Door Mounted Presence Sensor - Standard Non Programmable
- On-Board Input for Approach Side Door Mounted Presence Sensor - Programmable
- On-Board Input for Swing Side Overhead Mounted Presence Sensor - Programmable.  
(Controller will function with door mounted presence sensors on each side of the door or a swing side door mounted presence sensor and overhead mounted presence sensor)
- Factory Reset - Programmable
- Built-In Safety Circuit With Stall/Carpet/Reactivation – Programmable (no auxiliary modules required)
- Global Power Supply - Selectable 115-230VAC 50-60 HZ, Single Phase
- Optional Accessories Available - Door Sequencing and Interlocking Modules Available
- Available With a Full Range of Manual Controls, Door and Overhead Mounted Presence Sensors – ANSI Compliant
- Available in Clear Class II and Dark Bronze Class I Anodized Finishes (other anodized finishes, painting and metal cladding available upon request)
- Power Consumption Max 140 Watts
- ANSI/UL325 Listed United States and Canada