

WT-100 Gate Actuator Data Sheet

The WT-100 Gate actuator is meant to fit or retrofit actuation on any "stem" gate. That is a gate that utilizes a threaded system to move a gate blade up or down. It is a very simple robust compact unit well suited for gates with blades to approximately 36" square or round. Watch Technologies' WT-200 and WT-300 actuators handle larger gates. The actuator is DC gear-motor driven with a chain drive system moving a driven nut. The actuator can be built to fit a vertical or horizontal stem. Because it is a DC system, the actuator is ready made for solar application although an AC adapter can be shipped to accommodate AC power. An on-board 12 Amp Hour battery provides electrical capacity to operate well for many actuation cycles. The precise number is based on the size of a gate, the head pressure against, and stem speed but one can count on many days of operations without external power. The actuator requires no regular maintenance although lubricating the chain occasionally is a good but unnecessary maintenance practice.

Data:

Name: WT-100

Drive system: 1/16 HP DC Gear-motor/#40 or #41 chain

Torque: 8.3 ft Lbs to 25 ft. Lbs; lift assuming wear 775-2325lbs

Sprocket drive ratio: 1:1(typical) - 3:1

Maximum stem size: 1.5 in.

System voltage: 12VDC or 120VAC with adapter

Current draw: 3-4 Amps (typical)

On-board battery capacity: 12 Amp Hours

Switches: On/Off, Manual/Automatic, Manual Up/Down

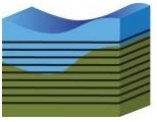
Dimensions: Width-11.25 in, Height-11", Depth-15"

Enclosure type: 304 Stainless Steel (316 optional) lockable

On-board Position sensor (Optional)

On-board controller optional

Terminal strip SCADA ready



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