

RAIL AUTOMATION

S-80 Grade Crossing Gate Mechanism

Siemens' new S-80 Smart™ Gate Mechanism is a quantum leap in technology over existing competitive products. The S-80 is fully programmable and no longer has any mechanical cams and contacts to maintain. It has six digital contacts, two of which are dedicated for gate position indication and control of the flashing lights.

The S-80 utilizes a brushless DC motor with advanced motor control that provides soft start/soft stop operation reducing the need for periodic maintenance and dramatically improving the life expectancy of the entire gate assembly.

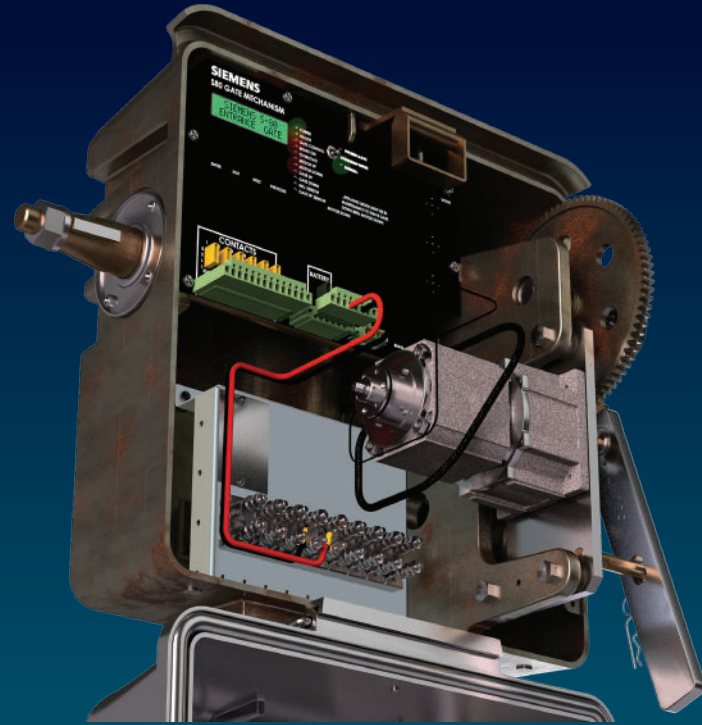
The S-80 can be equipped with an optional digitalization package that offers wireless and Wi-Fi capability enabling wireless gate control, local maintainer connectivity and full networking capability without having to run any additional underground cabling. In addition, the digitalization package offers an Automated Counterweight Assistant feature that takes installers through a counterweight calibration cycle to ensure the optimum horizontal and vertical torques are achieved with every installation.

Conversion from an entrance gate to and exit gate application is done by simply moving a jumper on the back of the control board. There is no longer a need to have two completely different mechanisms for these applications.



General Features:

- Maintenance-Free Brushless DC Motor
- Six Digital I/O Contacts (no cams & contacts)
- Advanced Digital Motor Control Soft-Start/Soft-Stop Gate Arm Operation
- Low Maintenance Drive Train
- Fully Programmable Operation
- Digital Display & LED Diagnostics
- Integrated MTSS Functionality
- Easy Entrance to Exit Gate Conversion
- Digitalization Capabilities
 - Cloud-based Data Analytics
 - Performance Monitoring
 - Wireless Gate Control
 - Local Wi-Fi Access
 - via Smartphone App
 - Automated Counterweight Assistance Feature



General Data

Specification	Parameters
SERIES DESIGNATION	ALL MODELS
Housing & Cover	Cast aluminum alloy
Gear Train	33:1 reduction (gear motor output to main shaft)
Operating Voltage	9 to 36 DC (12 & 24 VDC Nominal)
Operating Current	6-15 A (current varies with gate arm length)
Weight	Varies on options selected (110 pounds (50 kg) Mechanism only)

Siemens Mobility, Inc.
One Penn Plaza
11th Floor, Suite 1100, New York, NY 10119, United States

Contact for information:
Rail Infrastructure Headquarters, Homestead, PA 15120
1 (800) 793-7233, siemensmobility.us@siemens.com

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