

## GCP 4000 The First Fully Integrated Crossing Control System



### Objective

By integrating five separate crossing functions into one, compact unit, the GCP 4000 delivers the most efficient and cost-effective crossing control system available.

Controls all warning, monitoring and reporting functions at a crossing Integrates five functions:

- Up to six GCP track circuits, including Intelligent Processor Island (IPI) circuits and up to 9 DAX predictions per track
- Crossing controller (flashing light and gate control)
- Event Analyzer/Recorder
- HD Link (communication links for vital logic)
- Multiple vital timers and vital "AND" gates

Available in chassis configurations ranging from a single GCP track circuit through a redundant, six track-circuit GCP system with 40-Amp controller modules and event analyzer/recorder.

Allows remote testing and reporting of crossing operation, via multiple communications links.

Significantly reduces total crossing ownership costs:

- Design templates simplify application design and installation setup
- Eliminates all relays in a crossing installation
- Reduces crossing installation and setup costs; labor and material
- Monitoring/testing and remote reporting capabilities improve crossing maintenance efficiency
- CPU module and I/O modules are interchangeable with GEO® wayside systems

Remote monitoring/testing/reporting capability reduces crossing downtime and rail and highway traffic delays

The GCP 4000 crossing control system offers all of the functionality of Safetran's SSCC III PLUS crossing controller, SEAR II event analyzer/recorder and grade crossing predictors/motion sensors/IPI track circuits. It is available in single or dual (redundant) formats with a radio DAXing interface built-in. Conventional wire DAXing may also be used.

The GCP 4000's integrated design combines all of these crossing control functions in one compact chassis. A six-track, dual (redundant) system chassis measures 23" W x 31.5" H. Integrated chassis design virtually eliminates interconnect wiring, thus, providing significant savings in bungalow wiring costs for a complete, crossing system. Equipment space requirements are also reduced, which may reduce bungalow costs directly or through consolidation of equipment into fewer bungalows.

Maintenance savings start with single-person setup and calibration options and extend through programmable, automated testing/reporting based on the units advanced diagnostics capabilities. Remote testing and alarm capabilities reduce equipment downtime and improve labor utilization.

**Lower total ownership costs, improved maintenance efficiency, improved rail and highway traffic flow: GCP 4000**