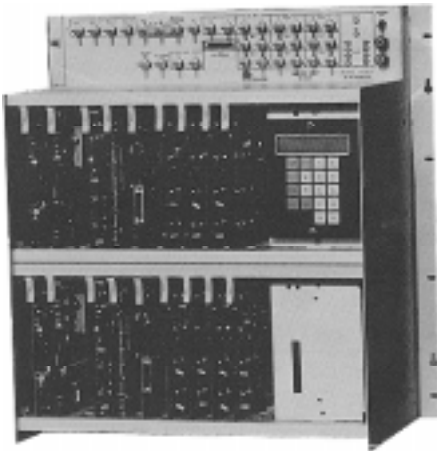


## EIGHT-DAX MICROPROCESSOR BASED GRADE CROSSING PREDICTOR

MODELS 3008/3008D2



- **UP TO EIGHT SEPARATE DAX CIRCUITS CONTROLLED FROM A SINGLE GCP**
- **EXCEPT FOR THE TRANSFER TIMER, USES STANDARD 3000 GCP PLUG-IN MODULES**
- **UNIDIRECTIONAL OR SIMULATED BIDIRECTIONAL OPERATING MODES**
- **FULL SYSTEM REDUNDANCY PROVIDED BY THE MODEL 3008D2 GCP**

In areas where multiple highway grade crossings are encountered, a Model 3000/3000D2/3000D2L GCP can be used to control the warning devices located at adjacent crossings. This technique is referred to as DAXing (downstream adjacent crossing) and a DAX module is used to accomplish this function. Each DAX module consists of two identical DAX circuits and each DAX circuit provides an independently programmed, constant warning time to extend the warning time of the prime unit.

The Model 3000/3000D2/3000D2L GCP contains a maximum of two DAX modules (four DAX circuits), and a separate DAX circuit must be assigned to each track at multiple highway rail crossings. Therefore, on single- or multiple-track railroads, the number of DAX circuits available determines the number of adjacent crossings that can be controlled.

The single-track Model 3008 and 3008D2 GCPs provide eight independent DAX circuits for controlling up to eight adjacent crossings. While the cases are essentially identical to those of their four-DAX counterparts, the second transceiver and island modules have been omitted to accommodate the additional DAX modules. The 3008/3008D2 GCPs can be operated in either unidirectional or simulated bidirectional modes. In multiple-track crossing applications, a Model 3008/3008D2 GCP must be used for each track.<sup>a</sup>

With the exception of a different automatic transfer timer module (80037), which is required in 3008D2 units only, all modules are identical to those used in the rest of the Model 3000 GCP family. Similarly, the Model 3008D2 GCP case is equipped with two identical module sets, as are the 3000D2 and 3000D2L, plus the automatic transfer timer module, with one module set serving as the primary system and the other as the backup. In the event of a failure of the primary system, control is automatically switched to the backup system.

## SPECIFICATIONS

For operation and general specifications, see catalog page B-1-2. Refer to the Instruction and Installation Manual for the Model 3000 GCP family for applicable system specifications.

## ORDERING INFORMATION

### MODEL 3008 GCP

To order, specify description and part number.

Description	Part No.
Basic Model 3008 Eight-DAX GCP Includes the following: Case, 80006 (1) Intelligent Processor Island Module, 80211 (1) Transceiver Module, 80012 (1) Relay Drive Module, 80013 (1) Processor Module, 80214 (1) DAX Module, 80016 (3) Control Interface Module, 80020 (1)	80006-003
Basic Model 3008 Eight-DAX GCP with Four (4) DAX Modules, 80016	80006-004
Basic Model 3008 Eight-DAX GCP with Three (3) DAX Modules, 80016, and One (1) Data Recorder Module, 80115	80006-013
Basic Model 3008 Eight-DAX GCP with Three (4) DAX Modules, 80016, and One (1) Data Recorder Module, 80115	80006-014
Basic Model 3008 Eight-DAX GCP with Three (3) DAX Modules, 80016, and Data Recorder Interface Module, 80255	80006-023*
Basic Model 3008 Eight-DAX GCP with Four (4) DAX Modules, 80016, and Data Recorder Interface Module, 80255	80006-024*
Basic Model 3008 Eight-DAX GCP with Three (3) DAX Modules, 80016, and One (1) Data Recorder Module, 80115, plus Keyboard	80006-113
Basic Model 3008 Eight-DAX GCP with Three (4) DAX Modules, 80016, and One (1) Data Recorder Module, 80115, plus Keyboard	80006-114
Basic Model 3008 Eight-DAX GCP with Three (3) DAX Modules, 80016, Data Recorder Interface Module, 80255, plus Keyboard	80006-123*
Basic Model 3008 Eight-DAX GCP with Four (4) DAX Modules, 80016, Data Recorder Interface Module, 80255, plus Keyboard	80006-124*

\* Requires use of Safetran's Event Analyzer/Recorder (SEA/R), 80250 or the SEAR II, A80273. (Please see catalog section B-13-1 for information on the SEA/R).

**NOTE:** For accessories and replacement parts, see pages B-1-16 and B-1-17.  
To order a GCP case without the island module, add a -0 to the end of the part number (example: 80XXX-XXX-0)

## ORDERING INFORMATION (CONT.)

### MODEL 3008D2 GCP

To order, specify description and part number.

Description	Part No.
Basic Model 3008D2 Eight-DAX GCP, Automatic Transfer Includes the following: Case, 80009 (1) Intelligent Processor Island Module, 80211 (2) Transceiver Module, 80012 (2) Relay Drive Module, 80013 (2) Processor Module, 80214 (2) DAX Module, 80016 (6) Control Interface Module, 80020 (2) Transfer Timer Module, 80037 (1)	80010-006
Basic Model 3008D2 Eight-DAX GCP, Automatic Transfer, with Eight (8) DAX Modules, 80016	80010-008
Basic Model 3008D2 Eight-DAX GCP, Automatic Transfer, with Six (6) DAX Modules, 80016, and Two (2) Data Recorder Modules, 80115	80010-016
Basic Model 3008D2 Eight-DAX GCP, Automatic Transfer, with Eight (8) DAX Modules, 80016, and Two (2) Data Recorder Modules, 80115	80010-018
Basic Model 3008D2 Eight-DAX GCP, Automatic Transfer, with Six (6) DAX Modules, 80016, and Two (2) Data Recorder Interface Modules, 80255	80010-026*
Basic Model 3008D2 Eight-DAX GCP, Automatic Transfer, with Eight (8) DAX Modules, 80016, and Two (2) Data Recorder Interface Modules, 80255	80010-028*
Basic Model 3008D2 Eight-DAX GCP, Automatic Transfer, with Six (6) DAX Modules, 80016, and Two (2) Data Recorder Modules, 80115, plus Keyboard	80010-116
Basic Model 3008D2 Eight-DAX GCP, Automatic Transfer, with Eight (8) DAX Modules, 80016, and Two (2) Data Recorder Modules, 80115, plus Keyboard	80010-118
Basic Model 3008D2 Eight-DAX GCP, Automatic Transfer, with Six (6) DAX Modules, 80016, Two (2) Data Recorder Interface Modules, 80255, plus Keyboard	80010-126*
Basic Model 3008D2 Eight-DAX GCP, Automatic Transfer, with Eight (8) DAX Modules, 80016, Two (2) Data Recorder Interface Modules, 80255, plus Keyboard	80010-128*

\* Requires the use of Safetran's Event Analyzer/Recorder (SEA/R), 80250 or the SEAR II, A80273.  
(Please see catalog section B-13-1 for information on the SEA/R).

**NOTE:** For accessories and replacement parts, see pages B-1-16 and B-1-17.  
To order a GCP case without the island module, add a -0 to the end of the part number  
(example: 80XXX-XXX-0)