

Model GPU - General Processing Unit

Power Supply and Basic Analog Signal Processor

Overview

The SCAN-A-LINE™ General Processing Unit – Model GPU is a basic processor designed to provide operating power, a convenient enclosure and interface point for a host of Harris electronic circuit boards and sensors. There are five main configurations for the **Model GPU**:

- Level 1:** For use with single or dual EG-Series sensors ONLY; 0 - 10VDC Edge Position Analog Output.
- Level 2:** For use as a power supply for remote sensor mounting (Line Driver/Receiver).
- Level 3:** For use with single 10XAS-Series sensors; 0 - 10VDC Absolute Width Analog & ±10VDC Deviation Centerline Position Analog Output.
- Level 4:** For use with dual 10XAS-Series sensors; 0 - 10VDC Absolute Edge Position Analog & ±10VDC Deviation Centerline Position Analog Output.
- Level 5:** For use with dual 10XAS-Series sensors; 0 - 10VDC Absolute Edge Position Analog, ±10VDC Deviation Centerline Position Analog & 0 - 10VDC Width Analog Output.



Model GPU Level 1 with Bargraph Display

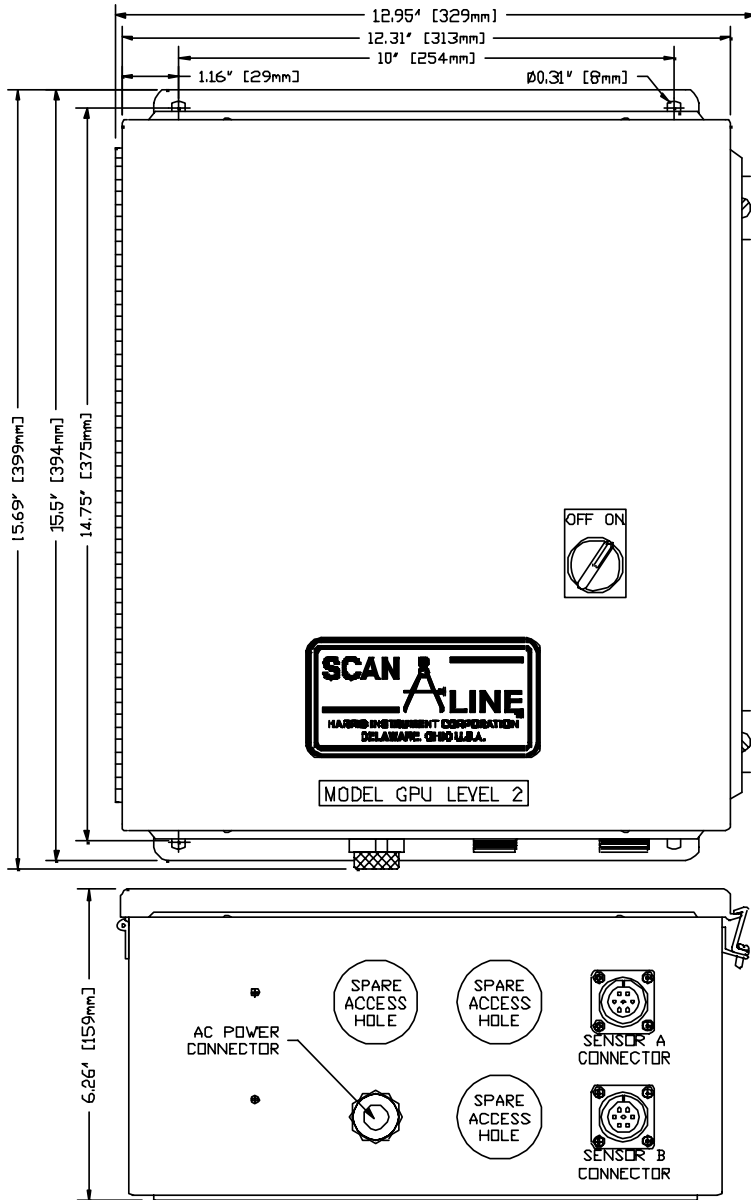
Options

- Absolute-to-Bipolar:** (ABC Option) For EG-Series sensors: Changes 0-10VDC signal to ±10VDC signal.
- Auto-Zero:** (AZ Option) For 10XAS-Series sensors: Sets any strip position as a reference position (Levels 4 & 5).
- Bargraph Display:** (BGA Option) Visually represents difference between a predetermined strip position and the detected strip position. Includes annunciators and limit relays.
- Line Driver:** (LDR Option) Converts sensor signals for routing to another SCAN-A-LINE™ processing unit up to 3000' [914m].
- 4/20 Current Loop:** (4/20 Option) 4/20mA Current Loop routes analog signals from Model GPU over long distances. Single or Dual configuration available.
- First Edge Video:** (FEV Option) Pre-processor to detect the first edge viewed, ignoring all other edges.

Features

- Compatible with SCAN-A-LINE™ EG-30A & 10XAS Sensors
- Various Analog Outputs on All Units except Level Two (type of output dependent upon unit model level).
- Left/Right Limit Relays Available (requires optional Bargraph Display – BGA Option).
- Switching Power Supply (±12VDC regulated for sensors and 5VDC regulated for logic circuits) and signal routing for up to two SCAN-A-LINE™ sensors. System Power: Universal 90 - 240VAC UL1950, FCC Class C.
- Model GPU Enclosure Dimensions: NEMA-style Steel 12" [305mm] wide x 14" [356mm] tall by 6" [152mm] deep.

Model GPU - General Processing Unit



Model GPU Level 2 Dimensions
(dimensions typical for all levels of Model GPU)



Model GPU Level 3



Model GPU Level 5 with Bargraph Display & Auto-Zero



Harris Instrument Corporation
 155 Johnson Drive Delaware, OH 43015
 Voice: 740-369-3580 Fax: 740-369-2653
 info@harris-instrument.com www.harris-instrument.com

© Copyright 2001 Harris Instrument Corporation. All Rights Reserved. SCAN-A-LINE™ is registered with the U.S. Patent and Trademark Office by Harris Instrument Corporation. All other product names are the trademarks of their respective companies. Information in this material is subject to change without notice.