

Delphi Airbag Control Unit – E4

Delphi's ACU-E4 is an Airbag Control Unit designed to detect frontal crashes and control deployment of two crash restraints. The ACU can control up to four restraints in any combination of airbags and pretensioners.

- ACU-E4 is designed to meet the requirements of the emerging safety market providing exceptional performance at very low cost.
- ACU-E4 senses vehicle crashes using an internal sensor. A crash sensing algorithm monitors the internal sensor and controls deployment of the restraints based on performance requirements for the specific vehicle in which it is installed.
- ACU-E4 provides an energy reserve function to guarantee deployment of all restraints in the case where power is lost during a crash. The ACU also provides the capability for creating and storing an event record to provide information about the crash for future analysis.



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ACU-E4 provides continuous diagnostics for external and internal functions. It provides an output to drive a system readiness indicator LED and up to three additional low-side drivers and up to five resistive sensor inputs. The ACU also provides a serial communication interface for communicating diagnostic and event record information.

► Specifications

- 9-16V operation (switched ignition)
- Up to 4 deployment loops
- CAN or KW2000 communication
- Airbag warning LED driver
- Supports up to 3 low-side drivers
- Supports up to 5 resistive switch interfaces
- Vehicle speed input
- 150ms Energy Reserve (all loops)
- Base plate can be modified to match vehicle footprint
- 20-pin TYCO connector with 5 shorting bars
- <200g
- IP52

► The Delphi Advantage

- More than 20 years of experience
- Breadth of product offering
- Innovation – Up-integration capability

► Benefits

- Exceptional value
- Exceptional quality (4ppm)
- World-class algorithms