

Twin Disc Electronic Control System



TDEC-400 shown with standard equipment.

The TDEC-400 is the latest state-of-the-art full authority micro-processor based electronic control system for Twin Disc automatic transmission systems used in heavy duty, off-highway applications.

Applications

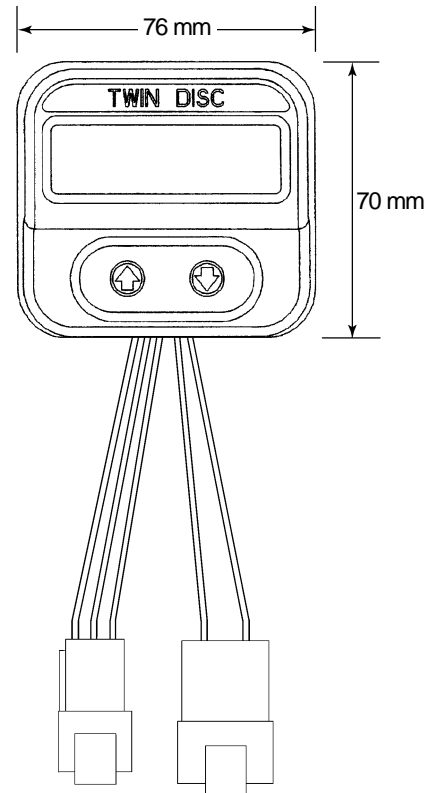
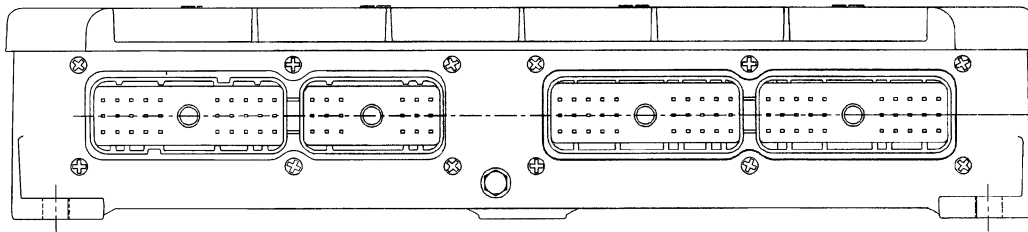
- Military vehicles
- ADTs
- Oil field rigs
- Heavy-duty off-road vehicles
- ARFF Vehicles

Features at a Glance

- Built-in-test (BIT) diagnostics. Health and trend capability with fault isolation via user accessible fault and status codes for all operational modes.
- Interactive command console and display.
- SAE J1939, J1708 CAN Bus and RS232 communication.
- Environmentally robust.
- Non volatile memory with real time clock giving time/date stamp for diagnostics.

Benefits

- More than a shift control, the TDEC-400 integrates the transmission, engine and other vehicle systems.
- Faster shifts, rapid vehicle acceleration and precise control of vehicle speed.
- Flexibility to tailor features and operation for optimum vehicle performance.



TDEC-400 Specifications

Processor:	Siemens 16 BIT C167CR 20 MHz
Size:	11.5" w x 10.5" d x 2.4" h (293 mm x 267 mm x 61 mm)
Supply voltage:	12 VDC to 24 VDC nominal
Mounting operation:	Unrestricted
Operating temperature range:	-40° to +85° C ambient
Communications:	SAE J1939 data link and RS-232 are standard
Optional:	SAE J1708 data link

Environmental Standard:

- Tested to Twin Disc's stringent S-854 standard.
 - Highlights of this include: salt spray, EMC (radiated and conducted), temperature and humidity, immersion, pressure wash, vibration and mechanical shock.
- Consult Twin Disc Application Engineering for more information.

TDEC-400 Display

- 32 x 100 pixel LCD supporting
 - 2 lines of 8 characters alpha numeric text for diagnostic messages
 - 1 line of 4 characters alpha numeric text in operating mode
- SAE J1939 communications
- Mounts on standard 2" (50.8 mm) hole.
- Pushbuttons provide access to control systems diagnostics.
- Back lit with dimming



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