

Integral Mounting Option  
**Current Monitor Card CM-A2/P**  
Model No. DS006

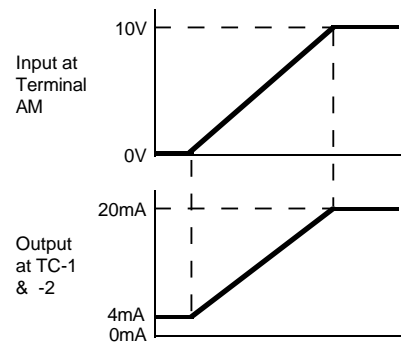
Before installing this option, a **TECHNICALLY QUALIFIED INDIVIDUAL**, who is familiar with this type of equipment and hazards involved, should **READ** this **ENTIRE INSTRUCTION SHEET**.

DESCRIPTION

The Current Monitor Card Model No. DS006 (Figure 1) is mounted on the Control Board of the GPD 505 to convert analog monitor signals (0 to 10V) from the drive to current signals (4 to 20 mA).

RECEIVING

All equipment is tested against defect at the factory. Report any damages or shortages evident when the equipment is received to the commercial carrier who transported the equipment.



INSTALLATION AND WIRING

**WARNING**

**Hazardous voltage can cause severe injury or death. Lock all power sources feeding Drive in "OFF" position.**

1. Disconnect all electrical power to Drive.
2. Remove Drive front cover. Check that "CHARGE" indicator lamp inside Drive is off.
3. Verify voltage has been disconnected by using a voltmeter to check for voltage at incoming power terminals (L1, L2, L3).

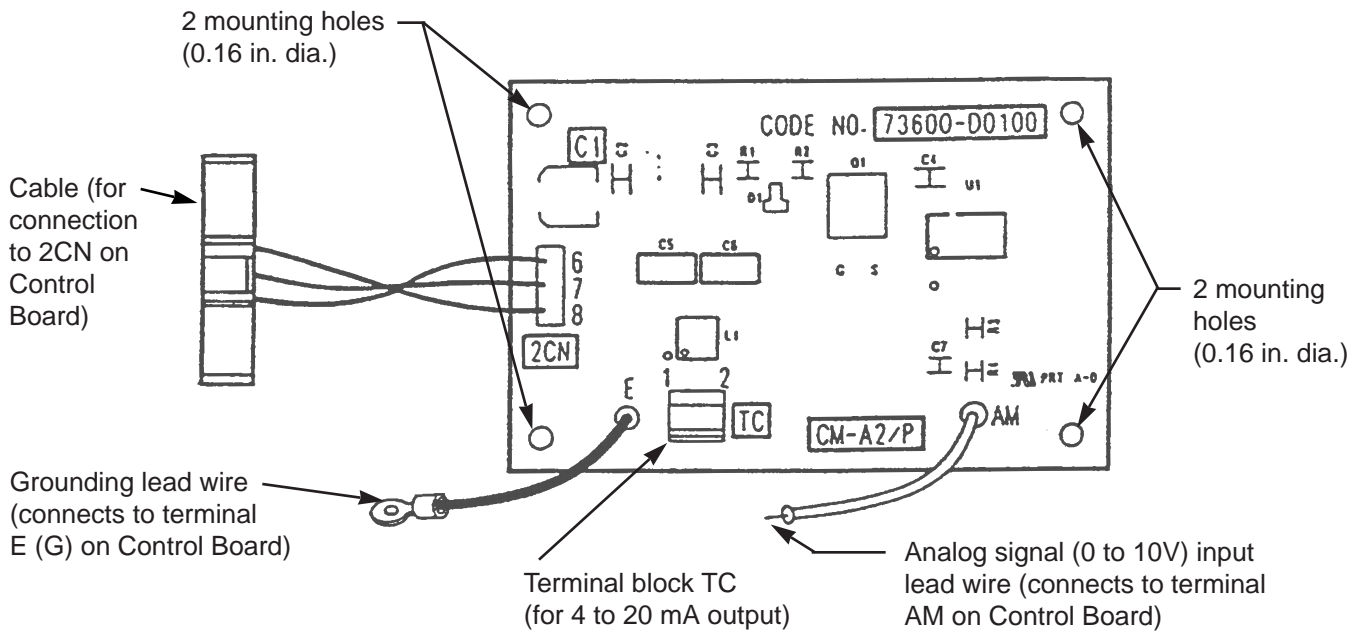
**CAUTION**

**The option card uses CMOS IC chips. If proper electrostatic discharge (ESD) protective procedure is not used when handling the card, the ICs may be damaged, resulting in erratic current monitor output.**

4. Refer to Figure 2. Position the option card on four mounting spacers on the Control Board of the Drive. Gently press the card into place until its four mounting holes click into place on the the spacers.
5. Plug the 2CN cable from the option card into connector 2CN of the Control Board.

CHANGE RECORD			

DWG. NO. 02Y00025-0408  
SHEET NO. 1 OF 4  
REL. 03/22/96 (m-df)



**Figure 1. Current Monitor Card DS006**

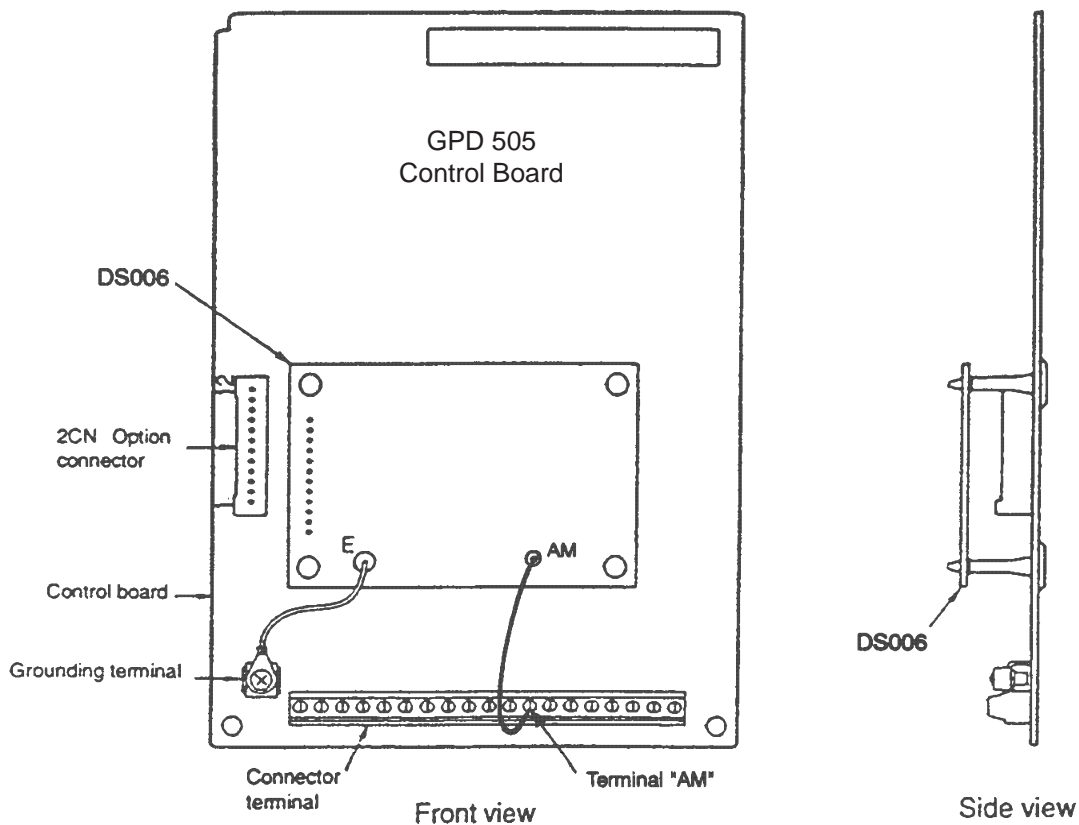
**Table 1. Terminal Functions of DS006**

Terminal Block Symbol	Pin No.	Functions
TC1	1	Current monitor output (+)
	2	Current monniot output (-)

**Table 2. Applicable Wire Sizes For Terminal Block TC**

Wire Type	mm <sup>2</sup>	AWG	Current (Amps)	VAC
Thin twisted wire	1	16	12	125
Solid wire	1.5	16	12	125
UL	—	22-16	10	300
CSA	—	28-16	10	300
CSA	—	28-16	10	150

- Connect the analog input lead wire (AM) from the DS006 card to the terminal AM on the Control Board.
- Connect the grounding lead wire from the DS006 card to the grounding terminal on the Control Board.



**Figure 2. Installation of the Analog Monitor Card DS006**

8. **Wiring.** Refer to Figure 3 and Tables 1 & 2. Make wire connections between the DS006 card and the external current monitor. Observe the following while wiring:

**CAUTION**

**Keep DS006 (i.e. current monitor) wiring separate from main circuit input/output wiring.**

- Refer to "Electrical Installation" in the GPD 505 technical manual for further information on use of shielded cable. Make shield connection at current monitor only, NOT at DS006 end.
- Strip back insulation for a distance of 0.22 in. on wire leads to connected to side-entry terminals of TC.

9. **Adjustments.** There are no adjustments to be made on the Analog Monitor option card.

10. Reinstall and secure Drive cover.

11. **Programming.** This option does not require any special programming in the GPD 505 drive.

12. Place this instruction sheet with your drive technical manual.

THIS COMPLETES INSTALLATION OF THIS OPTION.

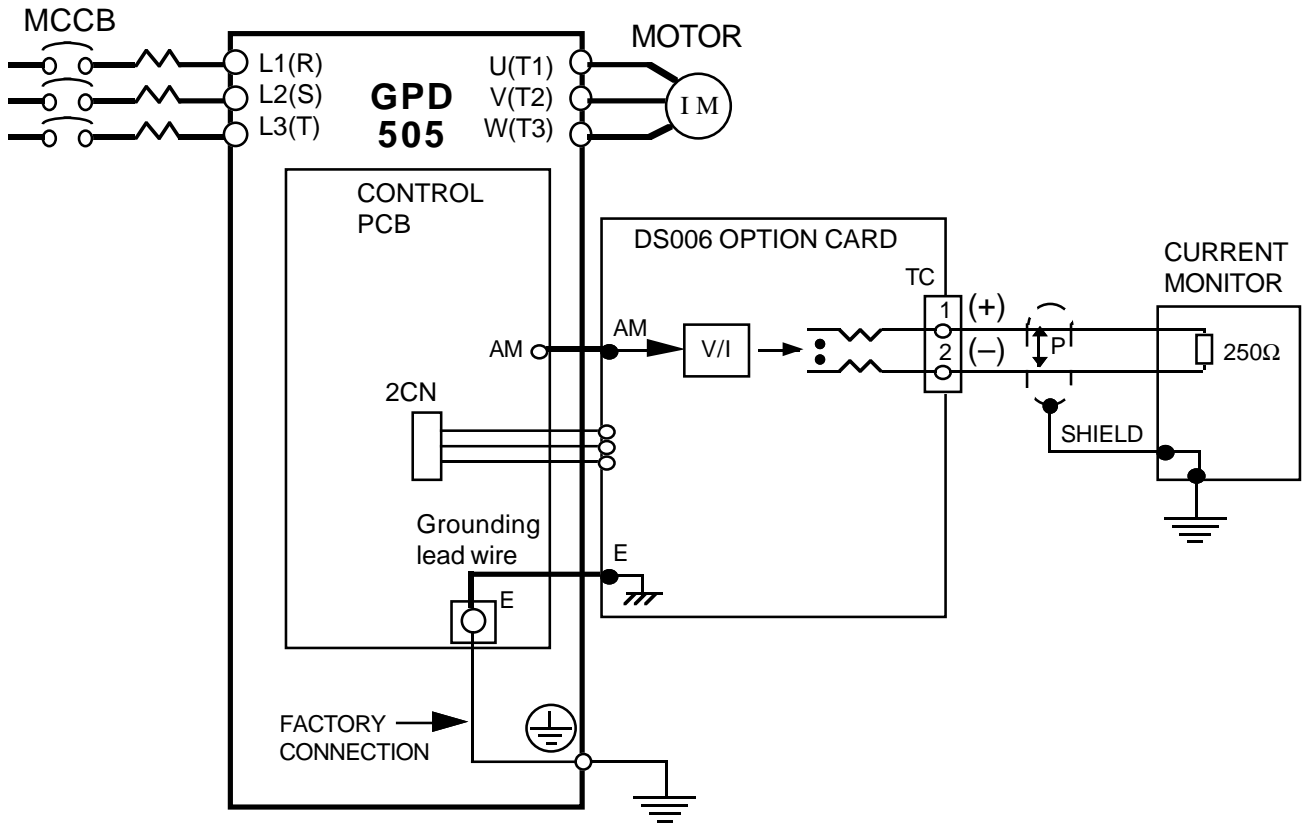


Figure 3. DS006 Interconnection Diagram