2562 8-Channel Analog Output Module

Description

The 2562 is a low-cost, high-speed, 8-channel analog output module designed to be compatible with the CTI Series 2500® and the SIMATIC® 505 programmable controller I/O base. The 2562 translates digital words from the controller into equivalent analog outputs. The 2562 is fully compatible with all versions of CTI Series 2500® CPUs and the SIMATIC® 545 and 555 PLCs.

Features

- CTI Series 2500® base format
- Replaces Siemens® 505-6208 with no rewiring
- 8 analog output channels
- 1500V channel-to-PLC backplane isolation
- Fast 4 mSec update time for all channels
- 12 bits of resolution
- Voltage and current outputs available simultaneously
- Bipolar or Unipolar outputs per channel
- Single-wide module

Specifications

**Output channels:** 8 analog output channels

**Response Time:**
- 4 mSec total module (includes settling time)

**Output Range:**
- Unipolar: 0 to +5.12 VDC
  - 0 to +10.24 VDC,
  - 0 to +20 mA
- Bipolar: -5.12 to +5.12 VDC
  - -10.24 to +10.24 VDC
  - -20 to +20 mA

**Resolution 12 Bits:**
- Unipolar 12 bits:
  - 0 - 20 mA range = 5µA/step
  - 0 - 5 VDC range = 1.25mV/step
  - 0 - 10 VDC range = 2.5mV/step
- Bipolar 11 bits plus sign:
  - -5 to +5 VDC range = 2.5mV/step
  - -10 to +10 VDC range = 5.0mV/step
  - -20 to +20 mA range = 10µA/step

**Isolation:** 1500 VDC channel-to-PLC

**Capacitance Drive:** 0.01 microfarad

**Load Resistance:**
- Voltage: 1KΩ minimum, no maximum
- Current: 0Ω to 1KΩ max. @ 24 VDC or greater

**Accuracy:**
- Voltage mode: 0.125% of full scale from 0° to 60°C over total load range
- Current mode: 0.225% of full scale from 0° to 60°C over total load range

**User Supply:**
- 20 to 30 VDC @ 0.50 Amps max.
  (maximum ripple of 0.4 V)

**Fuse:** 1A 250V FAST BLOW 5X20MM field replaceable Type Littelfuse #0217001.HXP

NOTE: Maximum load resistance for current output drops to 600Ω @ 20 VDC user supply

**Connector:** Removable

**Wire Gauge:** 14-22 AWG

**Backplane Power:** 1.7 Watts

**Module Size:** Single-wide

**Shipping Weight:** 1.5 lb (0.68 Kg)

Additional Product Information:

On CTI’s Website you find will links to the 2500 Series Standard Environmental Specifications and the UL Agency Certificates of Compliance.
Typical Internal Circuit—
Voltage Mode

Typical Internal Circuit—
Current Mode

2562 Wiring Connector