

## 6 or 12 Fully Programmable Non-Isolated Analog Outputs



12-channel version shown

### Product Description

The TMS series analog output card is a plug-in option for both the TMS2000 and TMS3000 Tank Management Systems which provides either six (6) or twelve (12) channels of non-isolated current loop output data, globally selectable for 0-20ma, 0-24ma or 4-20ma ranges. These outputs can be connected to most programmable logic controllers, building management systems, and similar analog input monitoring devices to provide continuous tank data without the need for communications protocol support. Each current loop channel is field programmable by tank number and data type, including gross volume, net volume, product level, water level and product temperature. If desired, voltage outputs, for example 0-5v, 1-5v or 0-10v can easily be configured using an external resistor. The TMS series analog output board requires no calibration and provides full-scale accuracy better than +/- 0.05% of full scale.

### Specifications

- Output Capacity: 6 or 12 channels
- Output Modes: Non-isolated 4-20mA, 0-20mA, 0-24mA, 0-5v, 1-5v or 0-10v
- Resolution: 15-bit
- Accuracy: Better than +/- 0.05% of full scale
- Operating Temperature: -40° to +175°F (-40° to +80° C)
- Output Data: Each output programmable by tank channel and output data, including Gross or Net Product Volume, Product or Water Level, or Product Temperature
- Maximum Wire Gauge: 20 AWG solid conductor
- Loop fault detection
- Uses one I/O Expansion Slot
- Compatible with TMS 2000 and TMS 3000

### Installation

The Analog Output Card uses the TMS 2000 non-hazardous I/O Expansion position or the TMS 3000 non-hazardous I/O Expansion slot 2. Refer to Bulletin 139 for detailed information.

### Model Numbers

- 900496-1 TMS 3000, 6 non-isolated Output Channels
- 900496-2 TMS 3000, 12 non-isolated Output Channels
- 900497-1 TMS 2000, 6 non-isolated Output Channels
- 900497-2 TMS 2000, 12 non-isolated Output Channels

Note: Specifications subject to change w/o notice. 4-30-2003