

ModBus RTU Interface Card Provides Simple, Efficient Connectivity Between TMS Series Tank Management Systems and Building Management Systems or PLCs



Product Description

The 900552 TMS ModBus RTU Interface Card is a plug-in connectivity product that offers an easy, cost-effective solution providing access to all TMS real-time tank management data from practically any building management system or programmable logic controller supporting the industry-standard ModBus RTU serial communications protocol. Available TMS data includes continuous tank data, statuses and alarms, leak/point level sensor statuses and contact closure input statuses. Communications is over a half duplex, single twisted-pair RS485 cable up to 4000 feet in length, with a switch-selectable line termination resistor for multi-drop configurations. Installation and setup is quick and easy, requiring no programming on the TMS console.

Features

- Industry-standard interface to most building management systems and programmable logic controllers
- Add ModBus RTU support to any TMS2000 or TMS3000 Tank Management System, either as a factory-shipped option or as a field upgrade*
- Installs within the locked TMS enclosure for secure, tamperproof connectivity
- No TMS programming required. Simply set slave address and baud rate on ModBus RTU card dip switches.
- ModBus status register allows host processor to confirm continuous updating of ModBus registers by TMS

Specifications

- Communications Protocol: Modbus RTU
- Communications Format: RS485, Half-Duplex
- Connection Type: Plug-In Terminal Block with Wire Entries

Input: Ch. A (+), Ch. B (-), Shield
Output: Ch. A (+), Ch. B (-), Shield

- Recommended RS485 Cable: Belden 9841 (PVC Jacket), 89841 (FEP Teflon Jacket) or similar
- Maximum Cable Length: 4000 Feet/1200 Meters total to end of run
- LED Indicators: TX (Slave Transmit), RX (Global Receive)
- Serial Data Format: Fixed, 1 Start Bit, N-8-1
- Baud Rate: 9600 or 38400, Dip Switch Selectable
- Slave Address Select: 0 thru 7, Dip Switch Selectable
- Maximum Slave Response Time: 400ms
- Maximum Number of 16-Bit Registers per READ Command: 64
- Maximum Register Update Rate from TMS: 1.2 seconds (0.8 seconds typ.)

*Requires TMS firmware Vxx.99.94 or later, available at no charge with purchase of ModBus card.

Note: Specifications subject to change without notice. 3-10-2008