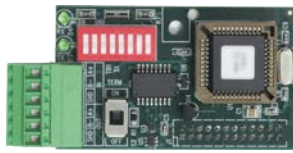


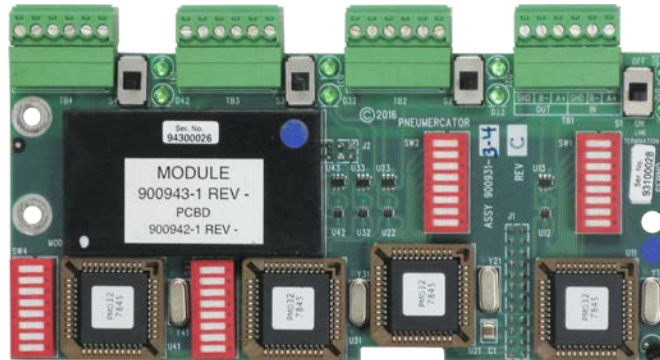
ModBus RTU Interface Cards Provide Simple, Efficient Connectivity Between TMS/LC2000 Systems and Building Management Systems or PLCs



Single-Channel



Dual-Channel



Quad-Channel

Product Description

The ModBus RTU Interface Cards are plug-in connectivity products that offer 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/LC2000 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 RS-485 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/LC2000 console. Available in single, dual and quad-channel configurations, isolated or non-isolated.

Features

- Industry-standard interface to most building management systems and programmable logic controllers
- Add ModBus RTU support to any TMS/LC2000 System, either as a factory-shipped option or as a field upgrade*
- Installs within the locked TMS/LC2000 enclosure for secure, tamperproof connectivity
- No TMS/LC2000 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/LC2000
- Single, dual and quad-channel(TMS3000/4000 only) configurations available, with isolated or non-isolated options.

Specifications

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| <ul style="list-style-type: none"> • Communications Protocol: Modbus RTU • Communications Format: RS-485, Half-Duplex • Connection Type: Plug-In Terminal Block with Wire Entries <p style="margin-left: 40px;">Input: Ch. A (+), Ch. B (-), Shield
Output: Ch. A (+), Ch. B (-), Shield</p> <ul style="list-style-type: none"> • Recommended RS-485 Cable: Belden 9841 (PVC Jacket), 89841 (FEP Teflon Jacket) or similar • Maximum Cable Length: 4000 Feet (1200 Meters) total to end of run | <ul style="list-style-type: none"> • 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: 1 thru 64, Dip Switch Selectable • Maximum Slave Response Time: 400 ms • Maximum Number of 16-Bit Registers per READ Command: 64 • Maximum Register Update Rate from TMS: 1.2 seconds (0.8 seconds typ.) |
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Model Numbers

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| <ul style="list-style-type: none"> • 900552-10 Single Non-Isolated Input • 901050-10 Single Isolated Input • 900665-5-5 Dual Non-Isolated Inputs | <ul style="list-style-type: none"> • 900665-R-R Dual Isolated Inputs • 900931-1-4 Quad Isolated Inputs, TMS3000 • 900931-3-4 Quad Isolated Inputs, TMS4000 |
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*Requires TMS firmware Vxx.99.94 or later, available at no charge with purchase of ModBus card.

Note: Specifications subject to change without notice. 06-16-2021