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AMCS

ACCUTRON MINE COMMUNICATION SYSTEM

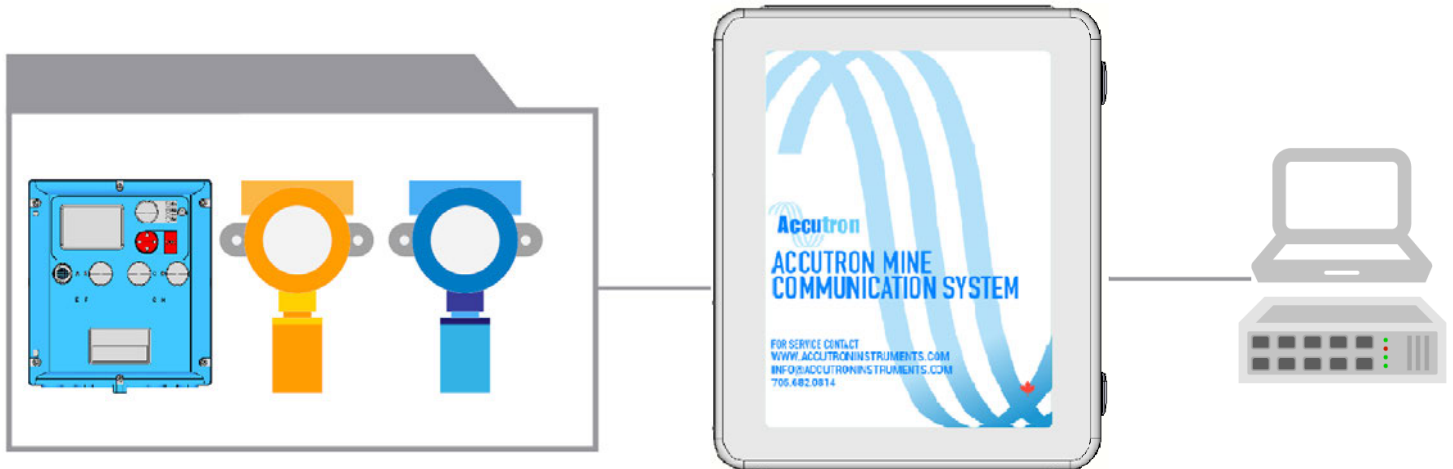


The Accutron Mining Communication System is an all-in-one communications solution linking your analog 4-20 mA signals and Modbus RTU protocols to your communications networks.

The AMCS accepts analog and digital in, and outputs Modbus TCP and digital signals that can be accessed through your network.

Communication Made Easy

STRAIGHT FROM DATA ACQUISITION TO AUTOMATION



THE AMCS IS AN ALL-IN-ONE COMMUNICATION SOLUTION

The AMCS is designed to bridge the gap from your sensors to your network. Build with existing Accutron products, the AMCS offers our entire suite of communication products, all integrated in one easy to use package.

The AMCS Combines the power of the CommTRAX with the utility of the I/O TRAX

- ✓ Connect Industrial sensors directly to the unit
- ✓ Convert analog 4-20 mA signals to digital for use with SCADA systems
- ✓ Convert Modbus RTU to TPC for wireless access to information
- ✓ LiveScript allows the use of mathematical equations and logic
- ✓ Smart alarm messages are transmitted via email, SNMP traps, text messages, and more
- ✓ Compatible with management software, automation software, PLCs and applications supporting SNMP communication
- ✓ Option for two or four alarm outputs
- ✓ Compact design, can fit where typical PLC or I/O solutions would be too large
- ✓ Modbus RTU, Modbus ASCII, RS485

BENEFITS

- ✓ Can communicate with multiple Modbus devices via multiple Modbus interfaces
- ✓ Outstanding reporting capabilities, built-in charting tools, and powerful monitoring software
- ✓ Provides a multitude of monitoring applications in one simple and reliable integrated solution

MODULES



COMMTRAX

- ✓ Real-time measurement and calculations
- ✓ Simple method for transmitting I/O data between modbus RTU and modbus TCP



I/O TRAX 1

- ✓ Modbus Slave
- ✓ 2 x Relay Outputs
- ✓ 4 x Analog Inputs (Isolated)
- ✓ 4 x Digital Inputs



I/O TRAX 2

- ✓ Modbus Slave
- ✓ 4 x Open Collector Digital Outputs
- ✓ 4 x Analog Outputs
- ✓ 4 x Digital Outputs



BATTERY

- ✓ Uninterruptible power supply
- ✓ 24 V in, 24V DC/ 10 A out
- ✓ IP 20 Protection

INPUTS

Analog 4-20 mA

Digital 0-27 VDC

Modbus RTU

RS 485



OUTPUTS

Analog Out

Digital Out

Modbus TCP/IP

SNMP

Built-in Power Supply Unit

- ✓ uninterruptible Power Supply
- ✓ Power Supply unit is integrated into the system for simplicity
- ✓ Accepts 24V in, 24V DC/ 10 A out

Software Features

- ✓ Powerful web-based interface to see site conditions any where, any time
- ✓ LiveScript, micro php Accutron Discovery Technology
- ✓ Real-time register polling
- ✓ Remote and local firmware upgrades and diagnostics (SD upgradable)
- ✓ Simple integration with existing fault management process and management software
- ✓ Datalogger with 2GB

Protocols

- ✓ TCP/IP; HTML, TFTP
- ✓ SNMP
- ✓ Modbus (RS485): Modbus Master/Slave; RTU mode;
- ✓ Modbus TCP/IP. Modbus Master/Slave; TCP/IP transmission protocol
- ✓ Modbus RTU RS-485
- ✓ Modbus TCP over Ethernet 10/100Base

Includes

- ✓ I/O TRAX (1 or 2)
- ✓ CommTRAX
- ✓ Power Supply
- ✓ Micro SD
- ✓ CommTRAX web-based application
- ✓ Cable Set
- ✓ Stainless Steel Mounting Plate

SPECIFICATIONS

Electrical Ratings

Power In

12-24VDC

Power Consumption

3mW

Impedance

120 Ω

Communication Interface

Inputs

RS485
Digital 0VDC to 27VDC
Analog 0mA to 20 mA

Outputs

Analog Out
Digital Out
Modbus TCP/IP
SNMP

Protocols

Modbus RTU
Modbus TCP
SNMP



☎ 705.682.0814
📠 705.682.2215
✉ info@accutroninstruments.com
🌐 www.accutroninstruments.com

