The Accutron Industrial 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 AICS accepts analog and digital in, and outputs Modbus TCP and digital signals that can be accessed through your network.
STRAIGHT FROM DATA ACQUISITION TO AUTOMATION

THE AICS IS AN ALL-IN-ONE COMMUNICATION SOLUTION

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

The AICS 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
**Software Features**

- Powerful web-based interface to see site conditions anywhere, anytime
- 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

**Applications**

- Access sensor measurement data over your network in real time
- Monitor alarm triggers and automatically notify workers
- Simple Solution for configuring analog industrial sensors with SCADA systems

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**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

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**MODULES**

- **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

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**INPUTS**

- Analog 4-20 mA
- Digital 0-27 VDC
- Modbus RTU
- RS 485

**OUTPUTS**

- Analog Out
- Digital Out
- Modbus TCP/IP
- SNMP
## SPECIFICATIONS

### Electrical Ratings

<table>
<thead>
<tr>
<th>Power In</th>
<th>Power Consumption</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-24VDC</td>
<td>3mW</td>
<td>120 Ω</td>
</tr>
</tbody>
</table>

### 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

### Includes

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

### 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

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