

RAU-96
RS-232 Interface

General Description

The **RAU-96** (RAU or Remote Access Unit) is a portable, multi-function, **RS-232** interface to the PROTOCOL system. It may operate in two modes:

1.) As a **system configuration and diagnostic tool** that allows a computer (PC/Laptop) to communicate with the PROTOCOL control system. In this mode it is used to **download system configuration files to control stations, load drivers, and to other system components**. The **RAU** also provides an **interactive, menu-driven, user interface** for testing and performing system **diagnostics**.

2.) As an **RS-232** interface with external systems such as **AV equipment, home automation systems, building management systems**, etc.

All **RAU** operations may be performed in-the-field or remotely via modem. The **RAU** can be connected anywhere on the system's network bus, using a 4-wire tap connection or directly into the front of a **DB44**. Once the desired task is accomplished, the **RAU may be removed without affecting normal system operation**. Communicating with Protocol systems using the **RAU** does not require special software. Any generic terminal program may be used to perform this task. Special software is only required to generate system configuration files. Digital Lighting Systems provides windows based software which integrates communications and system configuration capabilities in a single, easy to use, program. Refer to the Protocol Software Manual and RAU-96 User Manual for detailed instructions.

General Functions

- Log On / Log Off.
- Modify System Password.
- Download Device Configuration File.
- Reserved Factory Diagnostics.

Load Control Functions

- Set Load Intensity Level.
- Save Presets.
- Recall Presets.
- Blink Load.
- Set Load Maximum Trim.
- Set Load Minimum Trim.
- Get Max./Min. Trim Settings
- Get Current Output Level.
- Get Load Type.

Control Station Functions

- Monitor Button Presses.
- Display Button Configuration Data.
- Lock/unlock Preset Save.
- Flash Station LED's.
- Get Patch Data.
- Swap Station Buttons.

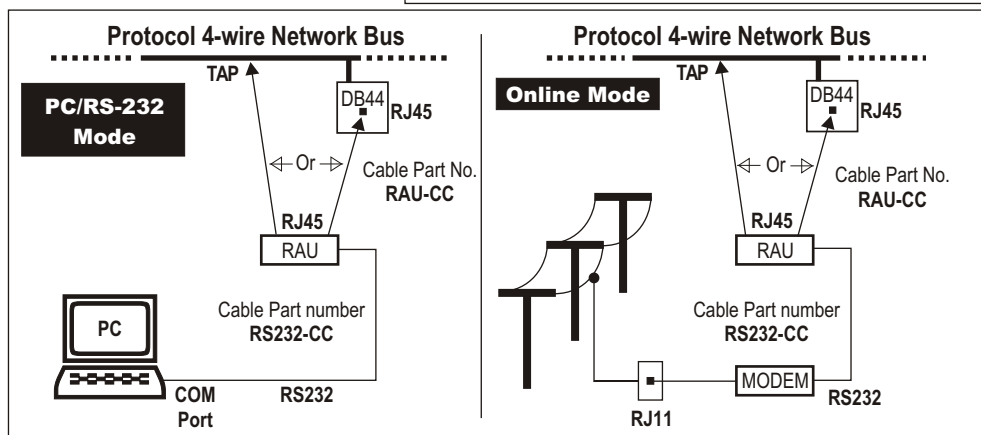
General Device Diagnostics

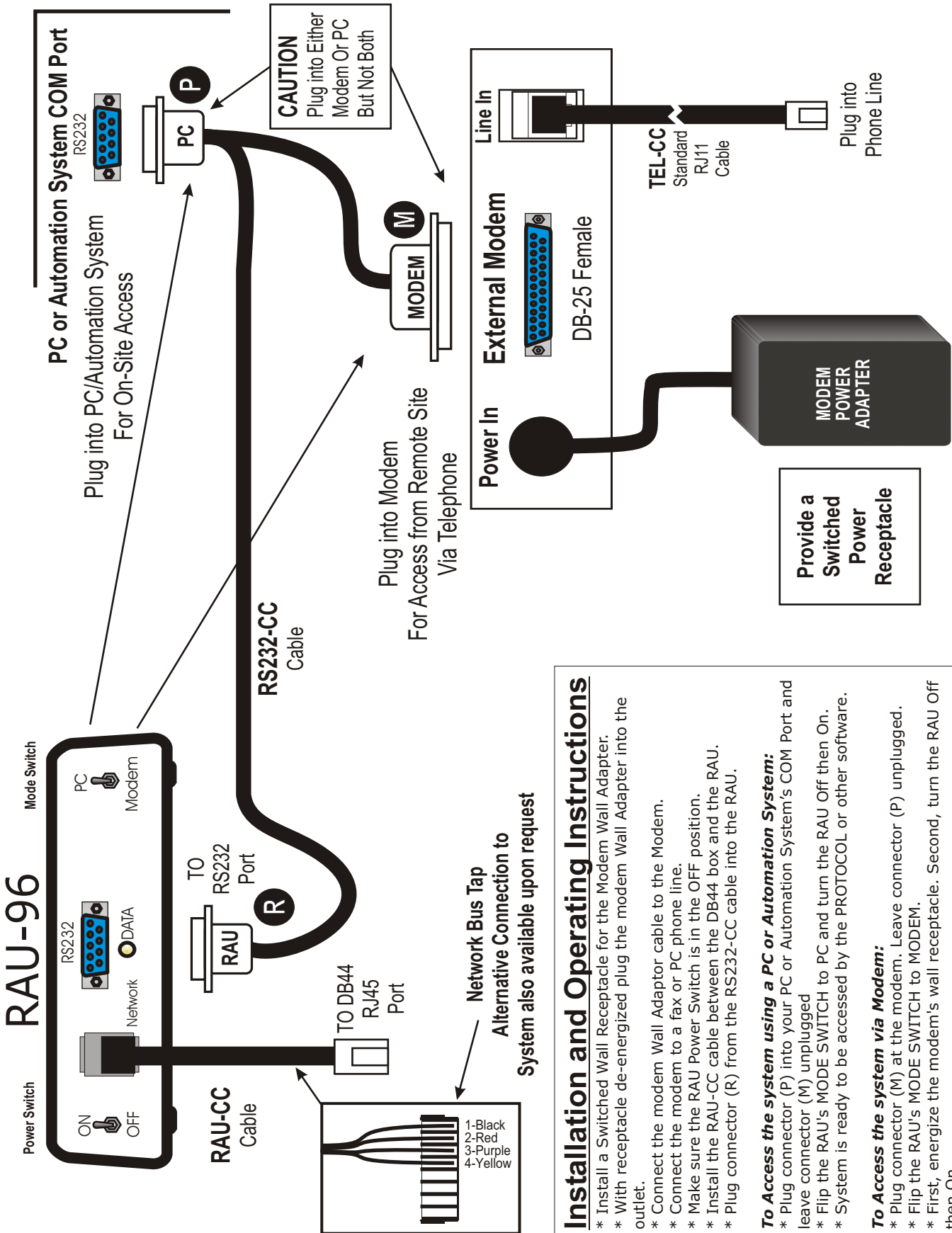
- Auto Detect System Devices.
- Get ID and Code Version.
- Device Check.
- Get Factory Settings.
- Modify Settings.
- Default To Factory Settings.
- Save Current Settings.
- Soft Reset.
- Initialize Device Memory.

Physical and Electrical Specifications

Enclosure: Table Top Plastic.
 Dimensions: 6-1/8" W x 4-1/4" D x 1-5/8" H.
 Metric: 156 mm x 108 mm x 42 mm.
 Weight: 12 Ounces (0.34 Kg.)
 Power: 75 mA at 10 VAC-50/60 Hz.
 Data Input: RS232 PC COM Port.
 RS232 Hayes Compatible
 Modem.
 Data Output: RS485 Protocol.
 Data Format: Asynchronous, 9600, 8-N-2.
 Data Port: DB9 Female Connector.
 Network Port: RJ45 Female Connector.

Typical Network Connections





Installation and Operating Instructions

- * Install a Switched Wall Receptacle for the Modem Wall Adapter.
- * With receptacle de-energized plug the modem Wall Adapter into the outlet.
- * Connect the modem Wall Adaptor cable to the Modem.
- * Connect the modem to a fax or PC phone line.
- * Make sure the RAU Power Switch is in the OFF position.
- * Install the RAU-CC cable between the DB44 box and the RAU.
- * Plug connector (R) from the RS232-CC cable into the RAU.

To Access the system using a PC or Automation System:

- * Plug connector (P) into your PC or Automation System's COM Port and leave connector (M) unplugged
- * Flip the RAU's MODE SWITCH to PC and turn the RAU Off then On.
- * System is ready to be accessed by the PROTOCOL or other software.

To Access the system via Modem:

- * Plug connector (M) at the modem. Leave connector (P) unplugged.
- * Flip the RAU's MODE SWITCH to MODEM.
- * First, energize the modem's wall receptacle. Second, turn the RAU Off then On.
- (Above Power-Up sequence must be observed for proper operation). System is ready for a call from a remote PC.