

415U-IAS Intelligent Antenna Switch

Installation Guide - Equipment Wiring



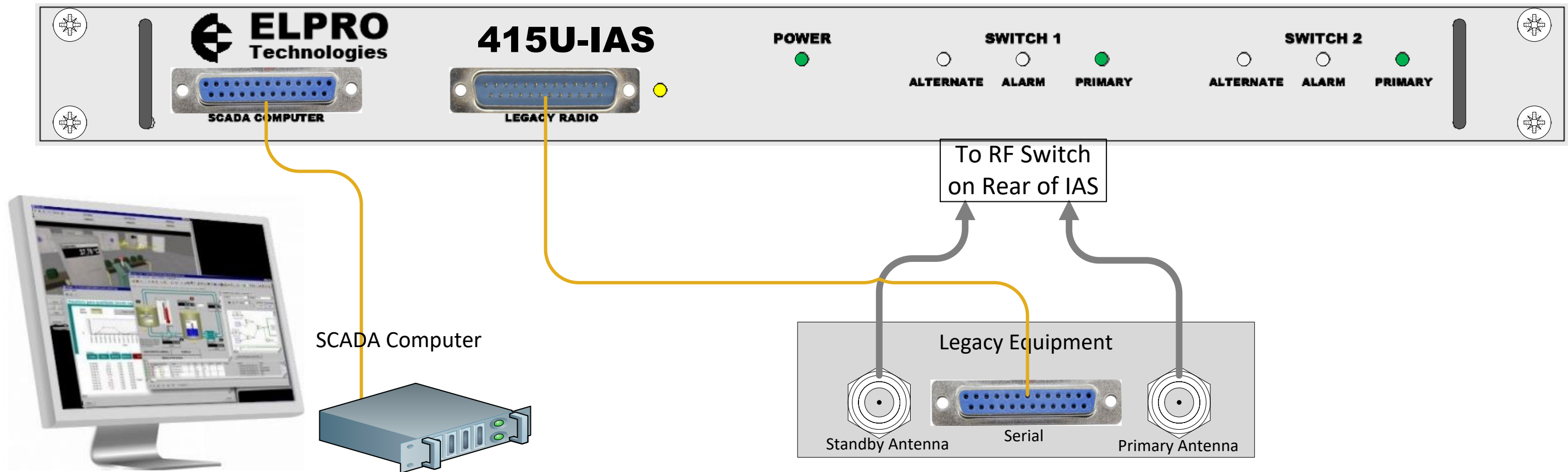
POWER SUPPLY

Input 11-30VDC. Suitable for:
 24VDC Industrial Supply – or –
 Lead Acid Battery (13.8VDC Nominal)

Environmental Specification:

Ingress Protection	IP40
Operating Temp	-40 to 70°C (-40 to 158°F)
Altitude	2000m
Pollution Degree	2
Humidity (Max)	95% non-condensing

IAS Installation Front Panel Connections



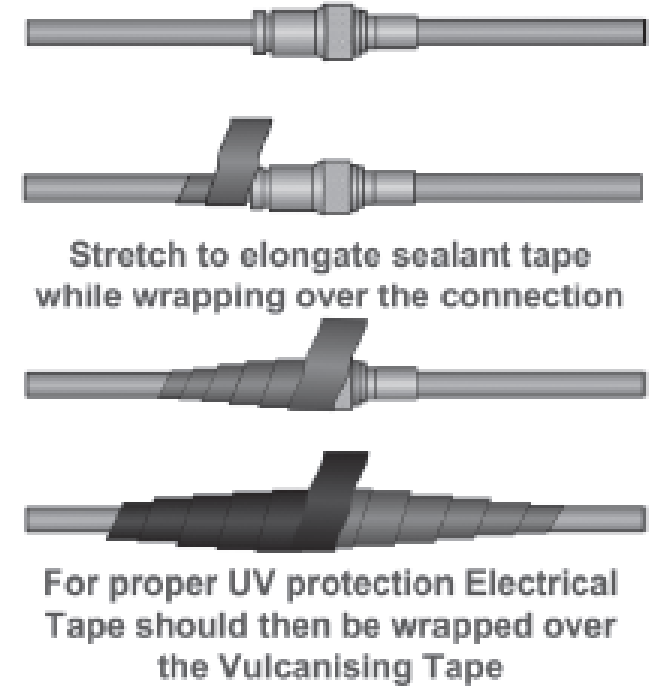
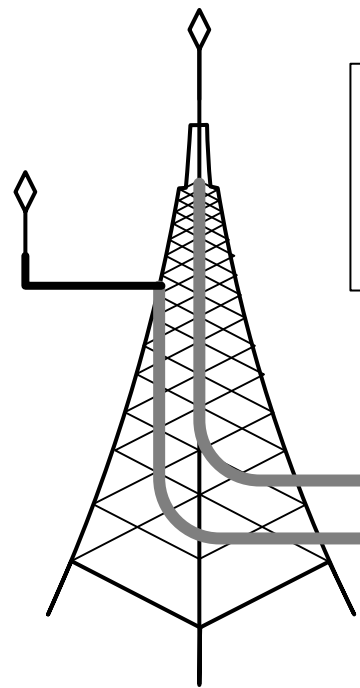
Important Notices

ELPRO products are designed to be used in industrial environments by experienced industrial engineering personnel with adequate knowledge of safety design considerations. ELPRO radio products can be used unprotected license-free radio bands with radio noise and interference. The products are designed to operate in the presence of noise and interference, but in an extreme case radio noise and interference can cause product operation delays or operation failure. Like all industrial electronic products, ELPRO products can fail in a variety of modes due to misuse, age, or malfunction. We recommend that users and designers design systems using design techniques intended to prevent personal injury or damage during product operation and provide failure tolerant systems to prevent personal injury or damage in the event of product failure. Designers must warn users of the equipment or systems if adequate protection against failure has not been included in the system design. Designers must include this Important Notice in operating procedures and system manuals. These products should not be used in non-industrial applications, or life-support systems, without consulting ELPRO first. A radio license is not required in some countries, provided the module is installed using the aerial and equipment configuration described in the Installation Guide. Check with your local distributor for additional information on regulations. Operation of unlicensed equipment is authorized by the radio frequency regulatory authority in your country on a non-protection basis. Although all care is taken in the design of these units, there is no responsibility taken for sources of external interference. Systems should be designed to be tolerant of these operational delays. To avoid the risk of electrocution, the aerial, aerial cable, data/IO cables and all terminals of the module should be electrically protected. To provide maximum surge and lightning protection, the module should be connected to a suitable ground and the aerial, aerial cable, IO, data cables and the module should be installed as recommended in the Installation Guide. To avoid accidents during maintenance or adjustment of remotely controlled equipment, all equipment should be first disconnected from the module during these adjustments. Equipment should carry clear markings to indicate remote or automatic operation. For example: "This equipment is remotely controlled and may start without warning. Isolate at the switchboard before attempting adjustments." The equipment operates unlicensed radio frequencies, proprietary protocols to communicate over the radio, cyber security features and encryption. Nevertheless, if your system is not adequately secured, third parties may be able to gain access to your data or gain control of your equipment via the radio link. Before deploying a system, make sure that you have carefully considered the security aspects of your installation and read the user documentation.

Proper Use

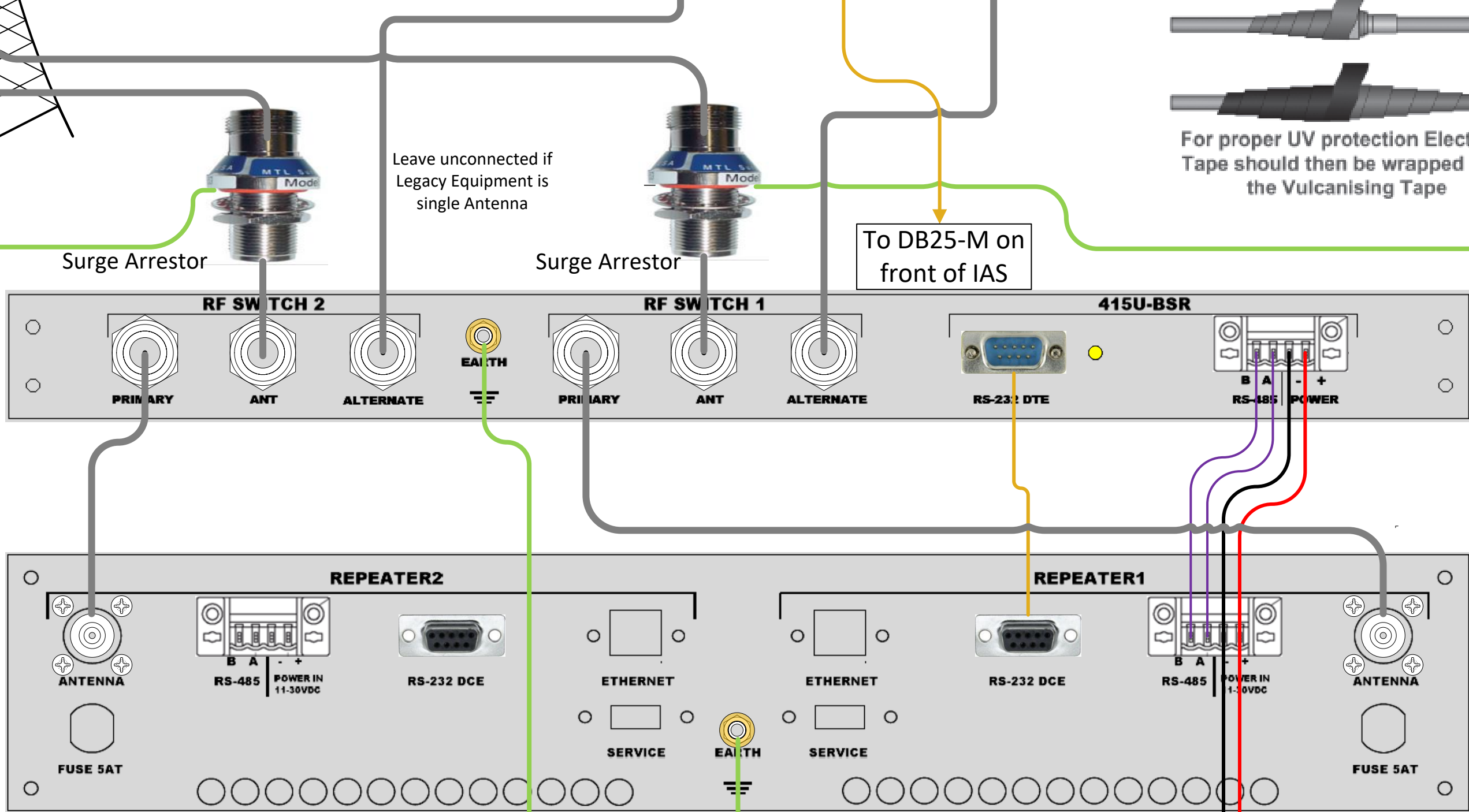
Any unauthorized modifications to or use of this equipment outside its specified mechanical, electrical, or other operating limits may cause personal injury and/or property damage, including damage to the equipment. Any such unauthorized modifications: (1) constitute "misuse" and/or "negligence" within the meaning of the product warranty, thereby excluding warranty coverage for any resulting damage; and (2) invalidate product certifications or listings.

IAS Installation Rear Connections



Leave unconnected if Legacy Equipment is single Antenna

To DB25-M on front of IAS



BSR Repeater2 is a cold standby during network Transition. Swap over power and serial connections to activate.

Earth Cable at least 11AWG (4mm²)

Power Supply (UPS)
2.5A 12-24V

Earth Stake: If Ground Conditions are poor, Install more than one Stake

Earth Stake Resistance Recommended <2Ω
Maximum 5Ω as per IEEE 1100