

# RTU-CIU1 Communications Interface Unit

MDA Exia 10035 AUS Ex 2067X

## 1. Description

The RTU-CIU1 Communications Interface Unit provides an optically isolated communication link for devices with RS232 capabilities, to the Ampcontrol IPB Relay=s RTU-2 Remote Termination Unit. Data can then be passed over the pilot conductor of the trailing cable, through the IPB Relay and it=s communication port to some other control or monitoring device/system.

A 110 VAC supply is required to power the RTU-CIU1 module.

### Note:

Communications can only be achieved if the RTU-CIU1 is used with an IPB5V04 (or later version) Relay and a RTU-2 Remote Termination Unit.

## 2. Features

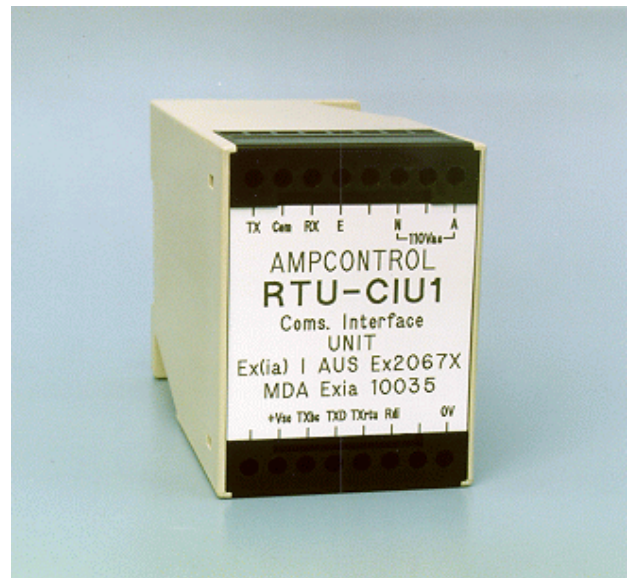
- ! Designed to pass eight (8) input bytes of information to the host system
- ! Data block transmitted to the IPB Relay every 800 mSeconds
- ! Analog and/or Digital Inputs
- ! Low cost installation
- ! DIN rail or foot mount
- ! Mines Department Approved

## 3. Application

The RTU-CIU1 Communications Interface Unit is usually installed in a remote machine, such as a fan or mobile equipment. Vital information for the control or monitoring of the remote machine is passed back to a central control or monitoring point.

This information plus the temperature of the RTD thermal devices connected to the RTU-2 Remote Termination Module allows a considerable amount of remote information to be monitored from a host system.

Connection via the pilot conductor simplifies installation and reduces installation time and cost.



### 3.1 Method of Installation

The RS232 device and the RTU-CIU1 module, connected to the RTU-2 Remote Termination Unit are used in conjunction with the monitoring of power outlets controlled by the IPB Integrated Protection Relay. In this installation the IPB Relay is connected via an Integrated Serial Interface (IPSI) to a DNET-IP2 Protocol Converter. The Protocol Converter transfers the relay details plus information from the RTU-CIU1 module to a PLC or Modbus connection (see Figure 1 on the reverse page for CIU-1 connections).

## 4. Specifications

### Supply

110 VAC  $\nabla$  20%, 3 VA

### Operating Temperature

Range: 0 - 60EC

### Dimensions

55 W x 75 L x 110 H mm

## 5. Parts List

E05648 RTU-CIU1 Communications Interface Unit

# Connection Diagram

Figure 1

