Protocol Translator

**MTT Protocol Translator**

The MTT enables MultiTrode controllers to be integrated into existing SCADA systems.

![Image of Protocol Translator]

The Translator enables MultiTrode controllers to communicate with all other SCADA systems such as Intellution, Wonderware, Citect or any system that accepts MODBus or DNP3.

The Translator has two additional scalable analog inputs and six digital inputs, each with 32 bit accumulators, a built-in radio modem and a 38,400bps comms port.

**Specifications**

**Inputs:**
- 6 x digital: Voltage free input contacts
  - Cable length should not exceed 50m
  - ESD and EMC protected
  - -ve line is common ground
  - Maximum input frequency of 100Hz (10 milliseconds)
- 2 x analog: 0 to 22mA input
  - Input resistance 22Ω Ohms
  - 10bit ADC accuracy
  - linearity +/- 1 lsb (0.025%)
  - ADC value scalable via configuration menu
  - External supply range 12 to 38VDC
  - ESD and EMC protected
  - -ve line is common ground

**Communications:**
- 2 x RS232: DB9 male,
  - Com 1: Fixed to 1200bps
  - Com 2: 1200 to 38,400bps
- Radio port: Bell 202, 1200bps (fixed)
- Audio Output: Adjustable via trimpot to 400mVp-p
- Audio Input sensitivity: 10-500mVp-p
- Squelch Input: 5-30VDC common ground
- Press to Talk (PTT): Open drain 200mA at 40VDC

**Indicators:**
- 9 status LEDs

**Approvals:**
- Compliance with C-Tick & CE requirements to:
  - AS/NZ 3548
  - CISPR 24
  - EN55024
  - EN6100-4-2/3/4/5/6/8 & 11

**Physical Product:**
- Dimensions: 4⅛h X 1 ⅛w X 5 ⅝d (Inches)
  - 118h x 45w x 135d (mm)
- Mounting: DIN Rail mounted

**Power Supply:**
- Min. voltage: 10V DC
- Max. voltage: 30V DC (Supply fused @ 250mA (self-resetting))

**Environmental Range:**
- Centigrade: - 10° to + 60° C
- Fahrenheit: +14° to +140° F

All MultiTrode products carry a full two year warranty.

**MODBus**
- Supports MODBus RTU mode with nine standard commands.
- Digital inputs are configurable to masquerade as analog inputs, saving point counts in SCADA systems.

**DNP3**
- Level 2 compliant DNP3 operations.
- Over and above Level 2 compliance, the MultiTrode Translator has the following highly useful features:
  - Configurable class assignments to DNP3 object types
  - Configurable deadbands on analog inputs
  - Also included
  - MultiTrode’s “Store and Forward”
  - MultiTrode’s “Reservoir Peer to Peer”

**www.multitrode.com**

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