

# Protocol Translator

## MTT Protocol Translator

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



The Translator enables MultiTrove 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.

### 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 MultiTrove Translator has the following highly useful features:
  - Configurable class assignments to DNP3 object types
  - Configurable deadbands on analog inputs

Also included

- MultiTrove's "Store and Forward"
- MultiTrove's "Reservoir Peer to Peer"

# 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 220 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	4 <sup>5</sup> / <sub>8</sub> h X 1 <sup>3</sup> / <sub>4</sub> w X 5 <sup>5</sup> / <sub>16</sub> d (Inches) 118h x 45w x 135d (mm)
Mounting	DIN Rail mounted

### Power Supply:

	Typically/ 100mA at 12VDC
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 MultiTrove products carry a full two year warranty



**MULTITRODE**

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