



## RCSN422

### SENSORNET TO RS-422 CONVERTER



The SensorNet to RS-422 Code Converter allows an ADTT16E controller to control existing RS-422 SpeedDome® Series domes. The Converter receives SensorNet communication from the ADTT16E controller and converts it into RS-422 protocol for use by the domes. This provides a practical and price competitive upgrade path from older RS-422 based systems – in particular the VM1 – to the newer SensorNet-based ADTT16E controllers.

The Converter permits upgrades without having to replace existing cabling or domes. This minimizes additional installation expense, system downtime and disruptions.

Upgrading to ADTT16E provides proportional variable speed dome control and intuitive access to features like dome flip, apple peel, and repeat pattern. In addition, SensorNet domes can be added to the system, thus allowing users to take advantage of SensorNet installations.

The converter includes seven RS-422 output ports. The ports use pluggable Euro-style screw terminal connectors, each with a dual color data LED.

The converter has one SensorNet port to accommodate the ADTT16E controller and seven RS-422 output ports for domes and J-Boxes.

## FEATURES

- Provides a migration path from VM1 to ADTT16E
- Allows ADTT16E systems to control existing RS-422 SpeedDome Series domes
- Class 2 LPS Certification
- Universal mount design
- Supports four presets per suitably equipped dome
- Supports three patterns per suitably equipped dome, including apple peel
- Supports proportional speed dome control and dome flip features
- Comprehensive diagnostics with front panel indicators

## SPECIFICATIONS

### Model Number

RCSN422 .....Code Converter, 120 or 230 VAC  
(specify at time of order)

### Operational

#### SensorNet Interface

Two decimal rotary switches with knobs for selecting address. Switch selectable terminating resistor.

Network Distance .....1 km (3,000 ft)  
 Maximum Loads .....32/node  
 Topologies .....Daisy chain backbone, star  
 Resistor .....Slide switch selectable  
 Transmission Medium .....Single unshielded twisted pair (UTP)  
 22 AWG, non-polarized  
 SensorNet Connector .....Pluggable, Euro-style screw terminal, 2 pin  
 Surge Protection .....Isolation transformer coupled, 2000 Vrms  
 PTC resettable fuse protects transformer  
 Gas discharge tube impulse rated at 10KA  
 TVS rated at 5.6 V, 40 A, 0.1 joules,  
 8/20 ms impulse

#### SensorNet 422 Serial Communication Interface

Seven line driver and receiver serial communications ports.

Network Distance .....1 km (3,000 ft)  
 Maximum Loads .....1/node or 10/node - daisy chained  
 (SpeedDome® version 6.1 and later,  
 SpeedDome Ultra/Optima series)  
 Transmission Medium .....2 shielded twisted pair (STP) 22 AWG,  
 polarized  
 RS-422 Connector .....Euro-style screw terminal, 5 pin plug  
 Surge Protection .....TVS rated at 5.6 V, 40 A, 0.1 joules,  
 8/20 ms impulse

#### Diagnostics

Communication Ping test,  
 RS-422 .....Loop-back test, reset button  
 Front Panel LEDs .....Primary power, microprocessor, SensorNet  
 activity, RS-422 activity, SensorNet noise

### Electrical

Power Source .....External power transformer  
 Operational Rating .....100 to 128 VAC, 200 to 250 VAC  
 (50/60 Hz)  
 Maximum  
 Operational Limits .....90 to 135 VAC or 180 to 265 VAC  
 (50/60 Hz)  
 Power Consumption .....20 watts maximum  
 Voltage to Converter .....20 to 26 VAC, Class 2 LPS  
 Cable to Transformer ......5 meter, 18 AWG, 24 VAC  
 Surge Protection .....TVS rated at 60 V, 250 A, 1.5 joules,  
 8/20 ms impulse  
 Allowable Drop Out .....150 ms

### Mechanical

Mounting .....Universal mount: wall, surface, rack  
 (19-inch EIA)  
 Dimensions (H x W x D)  
 Desktop .....43.7 x 438.2 x 130.6 mm  
 (1.72 x 17.25 x 5.14 in)  
 Rack Mounted .....43.7 x 481.6 x 130.6 mm  
 (1.72 x 18.96 x 5.13 in)  
 Weight .....1.5 kg (3.3 lbs)  
 Shipping Weight .....2.5 kg (5.5 lbs)  
 Color .....Black  
 Construction .....Aluminum enclosure

### Environmental

Operating Temperature .....0° to 50° C (32° to 122° F)  
 Humidity .....5 to 95% RH (non-condensing)  
 Storage Temperature .....-40° to 70° C (-40° to 155° F)

### Regulatory

Emissions .....FCC; 47 CFR Part 15; Subpart B Class A  
 CE: EN55022 Class B  
 CE: EN6100-3-2  
 CE: EN6100-3-3  
 AS/NZS 3548, Class A  
 CISPR22  
 ICES-003  
 Immunity .....EN50130-4  
 Safety .....UL: UL1950  
 cUL: CSA 22.2 No. 950  
 CE: EN60950  
 IEC950

### Product Compatibility

ADTT16E .....Advanced Dome Controller  
 RJ6SN .....Six-position J-Box, SensorNet, 120/230 VAC  
 RJ860AP .....Ten-position J-Box, RS-422, 230 VAC  
 RJ1SNUD .....Single-position J-Box, SensorNet,  
 120/230 VAC  
 RJ856UD .....Single-position J-Box, RS-422, 120/230 VAC

### Basic System Diagram

