

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

AMERICAN DYNAMICS

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.

SPECIFICATIONS

Model Number

RCSN422Code 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 Distance1 km (3,000 ft) Maximum Loads32/node

Resistor Slide switch selectable

Transmission MediumSingle unshielded twisted pair (UTP)

22 AWG, non-polarized

SensorNet ConnectorPluggable, 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 Distance1 km (3,000 ft)

Maximum Loads1/node or 10/node - daisy chained (SpeedDome® version 6.1 and later, SpeedDome Ultra/Optima series)

Transmission Medium2 shielded twisted pair (STP) 22 AWG,

polarized

RS-422 ConnectorEuro-style screw terminal,5 pin plug

8/20 ms impulse

Diagnostics

Communication Ping test,

RS-422Loop-back test, reset button

Front Panel LEDsPrimary power, microprocessor, SensorNet

activity, RS-422 activity, SensorNet noise

Electrical

Power Source External power transformer

Operational Rating100-128 VAC, 200-250 VAC (50/60 Hz)

Maximum

Operational Limits90 to 135 VAC or 180 to 265 VAC

(50/60 Hz)

Power Consumption 20 watts maximum Voltage to Converter20 to 26 VAC, Class 2 LPS Cable to Transformer5 meter, 18 AWG, 24 VAC

Surge ProtectionTVS rated at 60 V, 250 A, 1.5 joules,

8/20 ms impulse

Allowable Drop Out 150 ms

Mechanical

MountingUniversal mount: wall, surface, rack

(19-inch EIA)

Dimensions (H x W x D)

(1.72 x 17.25 x 5.14 in) Rack Mounted43.7 x 481.6 x 130.6 mm (1.72 x 18.96 x 5.13 in)

ColorBlack

ConstructionAluminum 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

EmissionsFCC; 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 ImmunityEN50130-4 SafetyUL: 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

