



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

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
TopologiesDaisy chain backbone, star
ResistorSlide switch selectable
Transmission MediumSingle unshielded twisted pair (UTP)
22 AWG, non-polarized

SensorNet ConnectorPluggable, Euro-style screw terminal, 2 pin
Surge ProtectionIsolation 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
Surge ProtectionTVS rated at 5.6 V, 40 A, 0.1 joules,
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 SourceExternal 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 Consumption20 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 Out150 ms

Mechanical

MountingUniversal mount: wall, surface, rack
(19-inch EIA)

Dimensions (H x W x D)

Desktop43.7 x 438.2 x 130.6 mm
(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)

Weight1.5 kg (3.3 lbs)

Shipping Weight2.5 kg (5.5 lbs)

ColorBlack

ConstructionAluminum enclosure

Environmental

Operating Temperature0° to 50° C (32° to 122° F)

Humidity5 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

ADTT16EAdvanced Dome Controller

RJ6SNSix-position J-Box, SensorNet, 120/230 VAC

RJ860APTen-position J-Box, RS-422, 230 VAC

RJ1SNUDSingle-position J-Box, SensorNet,
120/230 VAC

RJ856UDSingle-position J-Box, RS-422, 120/230 VAC

Basic System Diagram

