

## **FEATURES**

- SensorNet or RS-422 versions available in either 120 VAC or 230 VAC input
- Meets Class 2 power requirements
- NEMA 4/IP66 environmental protection rating
- Indoor or outdoor
- Quick-release lockable cover latches

- Can be conduit connected (standard 1/2-inch NPT knockouts with fitting supplied)
- Supports SpeedDome<sup>®</sup> Ultra/Optima programmable domes and outdoor housings
- Wiring diagram, installation guide, and test procedures on inside cover of J-Box enclosure
- Diagnostic LEDs
- Surge protection

# AMERICAN DYNAMICS

# RJ1SNUD and RJ856UD Series

SINGLE-POSITION SENSORNET AND RS-422 J-BOX

These weather-tight, single-position J-Boxes provide Class 2 LPS power and data communications for one programmable dome or one dome and outdoor dome housing. Each J-Box contains a single input—either SensorNet or RS-422—that receives data from the compatible controller and feeds that data to the dome.

The J-Boxes meet the Class 2 power requirements of the SpeedDome Ultra/Optima outdoor housings and are IP66/NEMA 4 rated for protection against moisture, dust, ice, wind, and insects.

The hinged front cover can be secured with captive screws and contains two quick-release cover latches that can be locked for further security. The inside of the enclosure's cover contains a wiring diagram, quick installation instructions and test procedures specific to that J-Box.

The units contain an on/off power switch as well as diagnostic LEDs for host, aux, dome activity, noise, and power. Surge protection circuitry within the J-Box arrests unexpected voltage surges on exterior power and data lines to protect interior equipment. The J-Boxes can be surface-mounted to concrete, wood, or sheet rock with supplied hardware. They can also be mounted to a ceiling or to a pole with user-supplied hardware.

### **SPECIFICATIONS**

#### **Model Numbers**

RJ1SNUD	SensorNet, 120 V
RJ1SNUD-1	SensorNet, 230 V
RJ856UD	RS-422, 120 V
RJ856UD-1	RS-422, 230 V

Transformer primary jumpers and main line cord are field changeable to support either 120 VAC or 230 VAC.

#### **Electrical**

Input Voltage	.100 to 120 VAC or 200 to 240 VAC,
	50/60 Hz
Input Current	.1.0 A / 0.5 A
Max Operational Limits	.90 to 135 VAC or 180 to 265 VAC,
	50/60 Hz
Output	.26 VAC, 2.4 A max, Class 2 LPS
Power Line	.TVS rated at 10 kA, 8/20 $\mu sec$ impulse
	rated gas tube

#### **Operational**

Diagnostic LEDs	
SensorNet	Host, aux, dome activity, noise, power
RS-422	Push-button controlled data in/data out
Power	On/off power switch
Wiring diagram, installation guide, test procedures all included on inside	
cover of J-Box.	

#### Mechanical

Environment	.Indoor/Outdoor
Wall Mounting OptionsConcrete, wood, sheet rock	
Dimensions (H x W x D)200 x 200 x 132 mm	
	(7.87 x 7.87 x 5.19 in)
Unit Weight	.3.7 kg (8.25 lbs)
Shipping Weight	.5 kg (11.0 lbs)
Construction	.Polycarbonate, nonmetallic enclosure
Color	.Light gray
Cover Locks	.Two quick-release lockable cover latches
Cable Access	.Three 1/2-inch NPT strain relief fittings
	provided for power, host and dome cables

#### **RS-422 Serial Communication Interface**

Cable Distance		
J-Box to J-Box 1 km (3000 ft)		
Host to J-Box 1 km (3000 ft)		
J-Box to Dome L	imited by the length of the low-voltage	
A	C power cable	
Maximum Loads1	0 daisy chained	
Cable TypeT	wo shielded twisted pair (STP), 22 AWG,	
р	olarized	
Surge Protection1	0 kA 8/20 μsec impulse rated gas tube,	
T	VS rated at 1,500 W	
Connectors		
HostS	pring-loaded	
Aux	pring-loaded	
Dome	Curostyle terminal	

#### SensorNet Serial Communication Interface

Cable Distance	
J-Box to J-Box	.1 km (3000 ft)
Host to J-Box 1 km (3000 ft)	
J-Box to Dome	.Limited by the length of the low-voltage
	AC power cable
Maximum Loads	.32/node
Cable Type	.Single unshielded twisted pair (UTP),
	22 AWG, non-polarized
Surge Protection	. Isolation transformer coupled, 2000 Vrms,
	10 kA, 8/20 μsec impulse rated gas tube,
	TVS rated at 1 watt
Host, Aux and	
Dome ConnectorsEurostyle plug	

#### **Environmental**

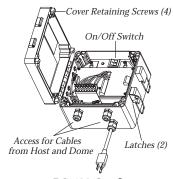
Weatherproof Standard NEMA 4/IP66
Operating Temperature
Storage Temperature10° to 50° C (14° to 122° F)
Relative Humidity 0 to 95% RH (non-condensing)

#### Regulatory

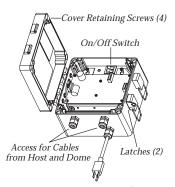
Emissions	FCC: 47 CFR, Part 15,
	Subpart B Class A
	CE: EN55022, Class B
	CE: EN6100-3-2
	CE: EN6100-3-3
	AS/NZS 3548, Class A
	CISPR22
	ICES-003
Immunity	CE: EN50130-4
Safety	cUL: CSA 22.2, No. 950
	CE: EN60950
	IEC950

#### Compatibilities

SpeedDome Optima Series Dome SpeedDome Ultra Outdoor Housing



**RS-422 Outdoor Single Position J-Box** 



**SensorNet Outdoor Single Position J-Box**