

# ATN Series

## INSTRUCTION MANUAL

# Autonics

Follow Autonics website for the latest information.

**Warning** Failure to follow instructions may result in serious injury or death.

- ⚠ Caution** Failure to follow instructions may result in injury or product damage.

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<b>Power supply</b>	<b>100 - 240 VAC ~ 50 / 60 Hz, 24 - 240 VDC ==</b>	<b>12 VDC ==</b>	<b>24 VAC ~ 50 / 60 Hz, 24 VDC ==</b>		
<b>Permissible voltage range</b>	90 to 110 % of rated voltage				
<b>Power consumption</b>	It depends on the model.				
<b>AT8N-□</b>	AC: ≤ 4.3 VA DC: ≤ 2 W	DC: ≤ 1.5 W	AC: ≤ 4.5 VA DC: ≤ 2 W		
<b>AT11DN-□</b>	AC: ≤ 3.5 VA DC: ≤ 1.5 W	DC: ≤ 1 W	AC: ≤ 4 VA DC: ≤ 1.5 W		
<b>AT11EN-□</b>	AC: ≤ 4.3 VA DC: ≤ 2 W	DC: ≤ 1.5 W	AC: ≤ 4.5 VA DC: ≤ 2 W		
<b>Insulation resistive</b>	≥ 100 MΩ (500 VDC == megger)				
<b>Dielectric strength</b>	Between the charging part and the case : 3,000 VAC ~ at 50 / 60 Hz for 1 min				
<b>Noise immunity</b>	± 2 kV square-wave noise by noise simulator (pulse width 1 μs)	± 500 V square-wave noise by noise simulator (pulse width 1 μs)			
<b>Vibration</b>	0.75 mm double amplitude at frequency of 10 to 55 Hz in each X, Y, Z direction for 1 hour				
<b>Vibration (malfunction)</b>	0.5 mm double amplitude at frequency of 10 to 55 Hz in each X, Y, Z direction for 10 min				
<b>Shock</b>	300 m/s <sup>2</sup> (≈ 30 G) in each X, Y, Z direction for 3 times				
<b>Shock (malfunction)</b>	100 m/s <sup>2</sup> (≈ 30 G) In each X, Y, Z direction for 3 times				
<b>Relay life cycle</b>	Mechanical: ≥ 10,000,000 operations Electrical: ≥ 100,000 operations (250 VAC ~ 5 A resistive load)				
<b>Ambient temperature</b>	-10 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)				
<b>Ambient humidity</b>	35 to 85%RH, storage: 35 to 85%RH (no freezing or condensation)				