

# Spotlight IIoT Monitoring System

Doc No. A39XX-DS Rev 1

## Specifications

Mechanical		
Footprint Dimensions	A3910-00-00 Controller	11.60" x 5.03" x 3.85" <sup>1</sup>
	A3920-00-00 Compressor PUC	8.0" x 5.4" x 1.9" <sup>1</sup>
	A3930-00-00 Gateway	13.40" x 12.68" x 7.86" <sup>1</sup>
	A3940-00-00 Engine PUC	8.0" x 5.4" x 2.5"
	A3950-00-00 Diagnostic Tool	2.55" x 1.95" x 1.18"
Weight	A3910-00-00 Controller	1.81kg (4lb)
	A3920-00-00 Compressor PUC	2.04kg (4.5lb)
	A3930-00-00 Gateway	3.86kg (8.5lb)
	A3940-00-00 Engine PUC	0.91kg (2lb)
	A3950-00-00 Diagnostic Tool	62g (2.2oz)
Mounting	A3910-00-00 Controller	Vertical Mount with ¼-20 Screws
	A3920-00-00 Compressor PUC	Horizontal Magnet Mount (standard) Horizontal Mount with ¼-20 Screws (Optional)
	A3930-00-00 Gateway	Vertical Mount with ¼-20 Screws (Option 1) Vertical Mount with #10 Screws (Option 2)
	A3940-00-00 Engine PUC	Adhesive Base Plate with ¼-20 stud (Standard), ¼-20 Screw (Optional)
	A3950-00-00 Diagnostic Tool	N/A
Environmental		
Operating Temperature	A3910-00-00 Controller	-20°C to +50°C (-4°F to 122°F)
	A3920-00-00 Compressor PUC	-20°C to +80°C (-4°F to 176°F)
	A3930-00-00 Gateway	-40°C to +75°C (-40°F to 167°F)
	A3940-00-00 Engine PUC	-40°C to +85°C (-40°F to 185°F)
	A3950-00-00 Diagnostic Tool	-20°C to +50°C (-4°F to 122°F)
Storage Temperature	All models	-40°C to +85°C (-40°F to 185°F)
Humidity	All models	Up to 95%, non-condensing
Hazardous Location Ratings	A3910-00-00 Controller	Class I, Division 2, Groups A-D, T4A, IP55
	A3920-00-00 Compressor PUC	Class I, Division 2, Groups A-D, T4A, IP67
	A3930-00-00 Gateway	Class I, Division 2, Groups A-D, T4, IP55
	A3940-00-00 Engine PUC	Class I, Division 2, Groups A-D, T4A, IP67
	A3950-00-00 Diagnostic Tool	Class I, Division 2, Groups A-D, T4A, IP65

<sup>1</sup> Dimension does not include external cabling and associated bend radius



# Spotlight IIoT Monitoring System

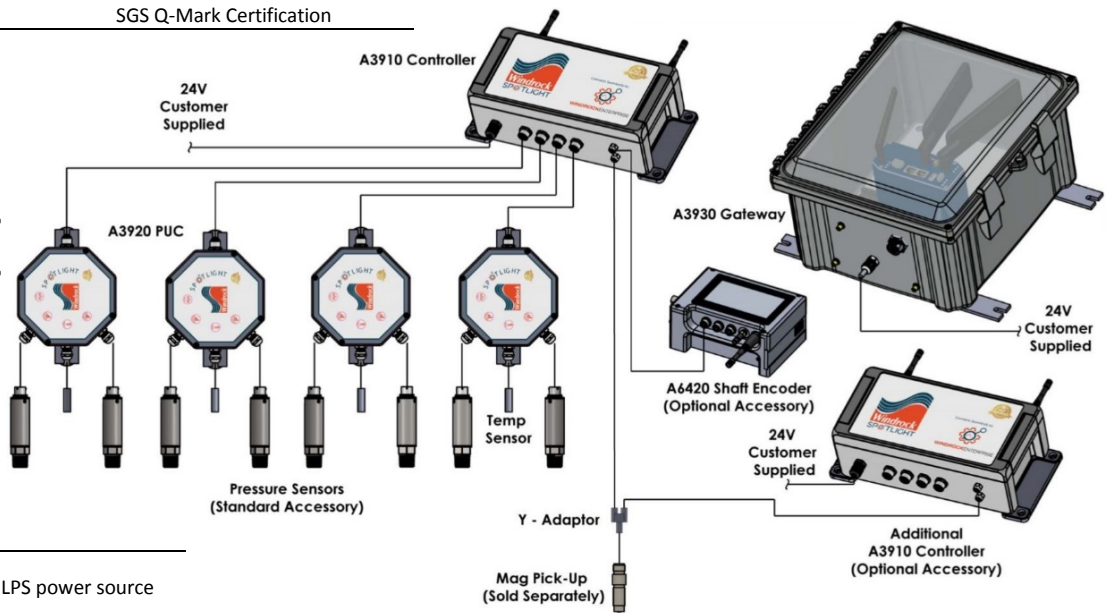
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Electrical			
Electrical Ratings	A3910-00-00 Controller	Nonhazardous locations	20VDC - 30VDC, 13W min
		Class I, Div 2 locations	24VDC (±3%), 13W min <sup>2</sup>
	A3920-00-00 Compressor PUC		24VDC, 1W min <sup>3</sup>
	A3930-00-00 Gateway		10-60VDC, 11W min
	A3940-00-00 Engine PUC		24VDC, 1W min <sup>3</sup>
	A3950-00-00 Diagnostic Tool		24VDC, 0.2W min <sup>3</sup>
Accelerometer	A3920-00-00 Compressor PUC		10mV/g with 500g max
	A3096-70-00 (Engine PUC option)		10mV/g with 500g max
	A3096-60-00 (Engine PUC option)		50mV/g with 100g max
	A3096-50-00 (Engine PUC option)		100mV/g with 50g max
Pressure Sensor	02060010 (Standard Compressor PUC option)	02060010/C (Coated Compressor PUC option)	0-300 PSI
	02060020 (Standard Compressor PUC option)	02060020/C (Coated Compressor PUC option)	0-500 PSI
	02060030 (Standard Compressor PUC option)	02060030/C (Coated Compressor PUC option)	0-1000 PSI
	02060040 (Standard Compressor PUC option)	02060040/C (Coated Compressor PUC option)	0-2000 PSI
	02060050 (Standard Compressor PUC option)	02060050/C (Coated Compressor PUC option)	0-3000 PSI
	02060060 (Standard Compressor PUC option)	02060060/C (Coated Compressor PUC option)	0-5000 PSI
	02060070 (Standard Compressor PUC option)	02060070/C (Coated Compressor PUC option)	0-7500 PSI
	RTD	A3920-00-00 Compressor PUC	

## Industry Certifications & Approvals

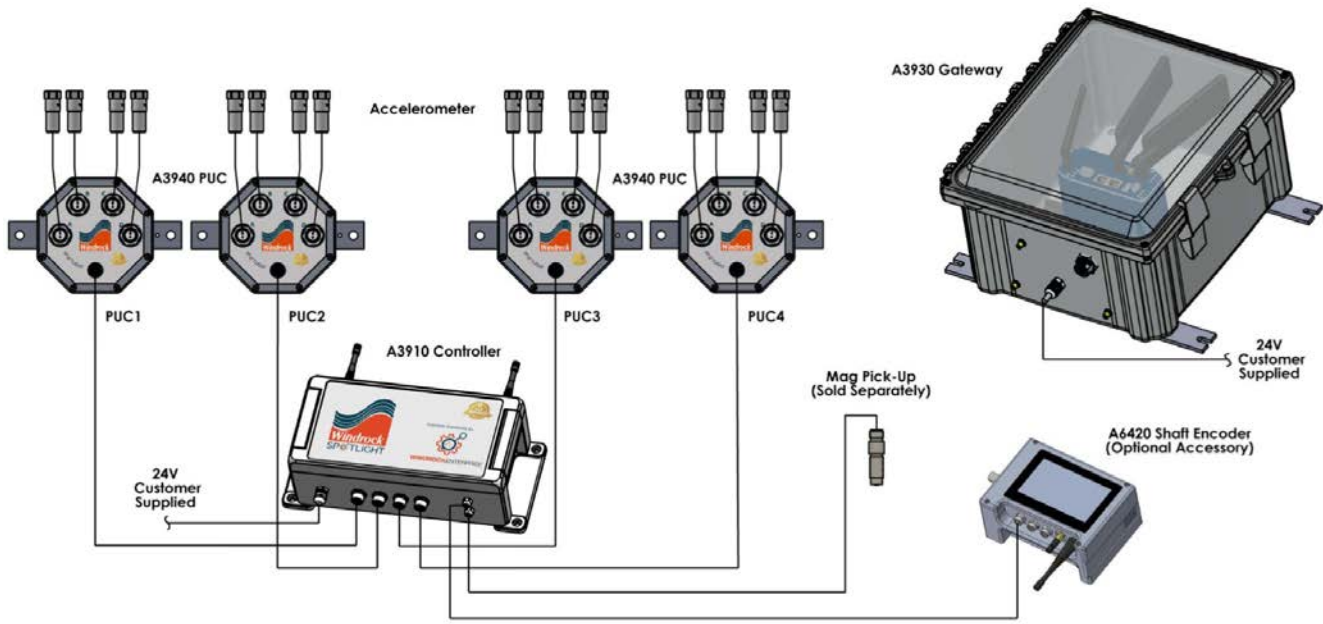
Hazardous Area	ISA-12.12.01; CAN/CSA C22.2 No. 213-15, Class I, Division 2
General and Electrical Safety	UL 61010-1; CAN/CSA C22.2 No. 61010-1-12
Emissions/ Immunity	FCC Part 15, Subpart B; ICES-003
Certifying Body	SGS Q-Mark Certification

### Spotlight for Compressor System

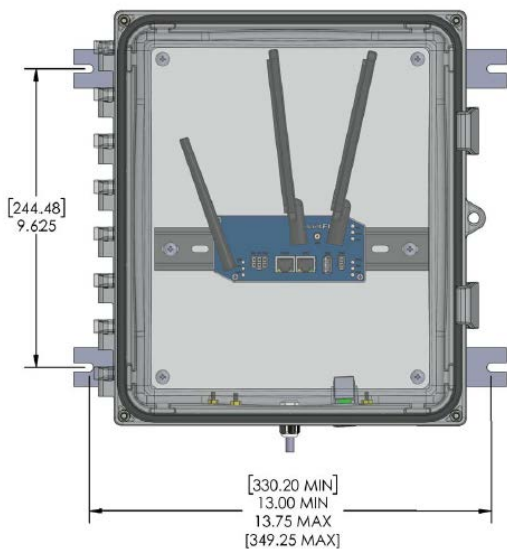


<sup>2</sup> using approved SELV LPS power source

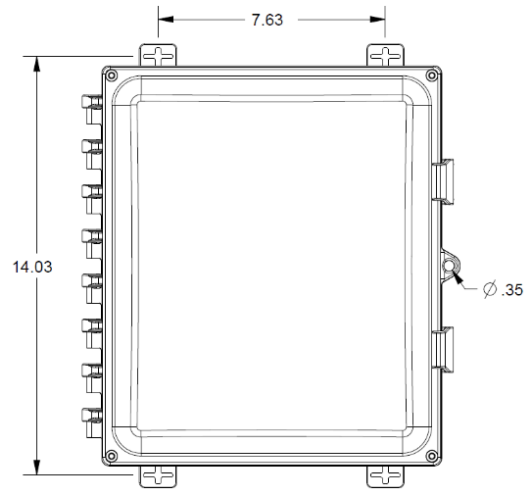
<sup>3</sup>Power to module supplied by Controller. Plug module directly into A3910 Controller.



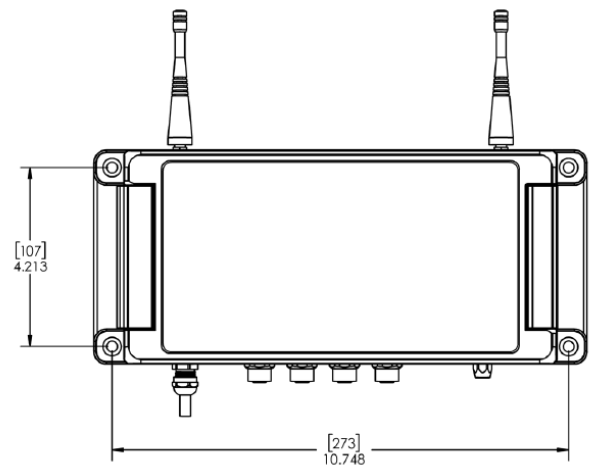
### Spotlight for Engine System



Gateway Mounting Option 1



Gateway Mounting Option 2



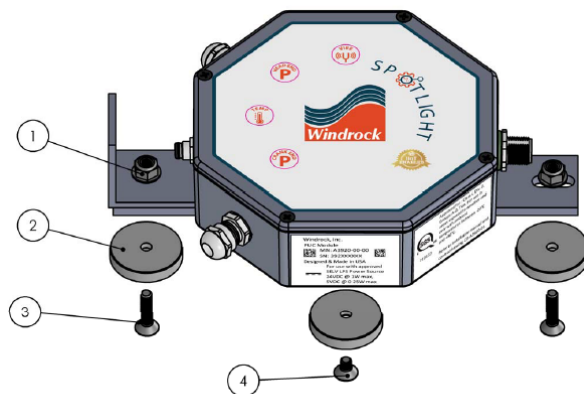
Controller Mounting



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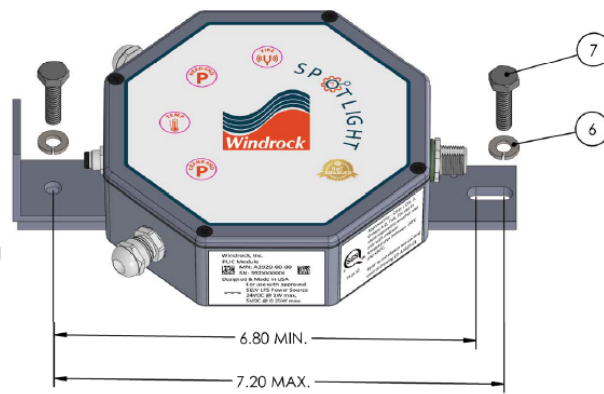
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Item	Description	Qty
1	10-32 Nylon-Insert Flange Locknut	2
2	Disc Magnet	3
3	10-32 x 7/8" Flat Head Screw	1
4	10-32 x 3/8" Flat Head Screw	1
5	10-32 x 3/4" Flat Head Screw	1
6	1/4" Split Lock Washer	2
7	1/4-20 x 1" Hex Head Screw	2



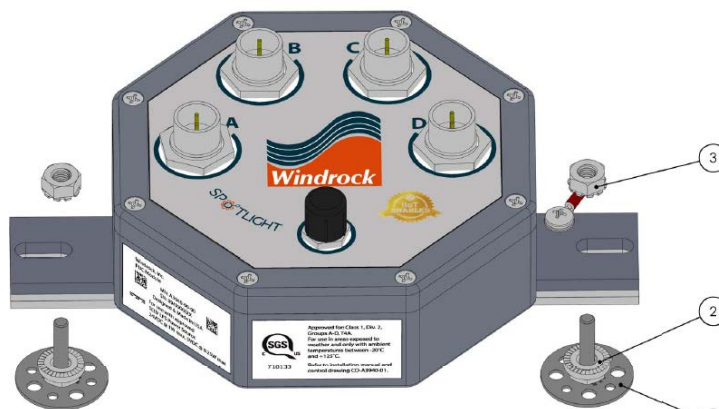
MOUNTING OPTION 1

## Compressor PUC



MOUNTING OPTION 2

## Compressor PUC



## Engine PUC Mounting

Item	Description	Qty
1	1/4-20 X 1" Steel Stud with Base Plate	2
2	Serrated Flange Locknut	2
3	Locknut with External-Tooth Lock Washer	2

### Recommended Mounting Procedure

Tools needed: indelible marker, 1/4" nut driver, spray degreaser, towel (not included)

1. On both Base Plates (item 1), thread Locknut (item 2) such that the flange is facing outwards.
2. Use a spray degreaser and towel to clean the surface.
3. Use Loctite 330 (included with system) on a single Base Plate and adhere it to the desired mounting location using spray activator. Allow time to cure.
4. Hold loose Base Plate in PUC mounting bar slot and insert fixed Base Plate Stud into opposite slot.
5. Mark location of loose Base Plate with indelible marker.
6. Remove PUC. Adhere remaining loose Base Plate and allow time to cure.
7. Install PUC onto both Base Plates. Thread 1/4-20 Locknuts (item 3) and tighten in place.

## Additional Information

Spotlight Overview & Site Preparation Guide  
 Spotlight Compressor Monitoring System User Manual  
 Spotlight Engine Monitoring System User Manual  
 Enterprise Gateway User Manual

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