

AF000406-FXS SERIES DIRECT AIR COOLING Site Monitoring & Data Collection

PART NUMBER: AF000406-FXS-A1-D1-T5

Rev. A | August 2025



Experience Total System Control with the Next Evolution of Direct Air Cooling

ENHANCE YOUR SITE COOLING STRATEGY

RF Industries is excited to introduce the next evolution of our advanced Direct Air Cooling platform: a monitoring and analytics suite that provides comprehensive data insights. This system allows you to optimize energy consumption and significantly reduce operational costs.

THE CONFIDENCE TO MAKE YOUR NEXT MOVE

Our diverse range of sensors is specifically designed to monitor all critical components within your telecom shelter or cabinet. The ecosystem collects and transmits real-time data on fan status, temperature fluctuations, HVAC runtime, temperature performance, and the overall health of the thermal ecosystem.

With these sensors, you can effectively monitor your site, plan site visits, and make informed decisions for future improvements. This includes identifying overworked HVAC units before they fail and analyzing trends to optimize filter usage, ultimately saving both time and money.

FEATURES

- Monitors one HVAC unit and, with additional temperature sensors, can monitor up to three HVAC units.
- Includes low-voltage AC (24V nominal) taps that provide indications of cooling and heating calls from controllers or thermostats.
- Features wireless 4G LTE connectivity for enhanced monitoring and alarming, which includes HVAC supply and return temperatures, as well as average and cumulative runtimes for HVAC cooling, heating, and economization.

BENEFITS

- **Know Before You Go** – Reduce unnecessary or poorly informed site maintenance calls to save money, effort, and time.
- **Plan for the Future** – Provides precise recommendations for predictive maintenance, automation, and other site optimization strategies.
- **Level up your network site management** – With legacy HVAC systems offering little to no telemetry, operators can utilize sensors to scale efficiently and minimize environmental impact.



WHAT'S INCLUDED

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- (5) thermistor temperature sensors, 15ft
- (1) AC Current Sensor
- (1) DC Current Sensor

HOW IT CONNECTS

- Wireless 4G LTE

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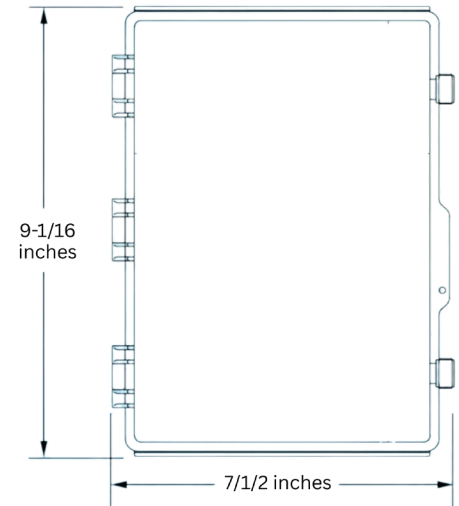
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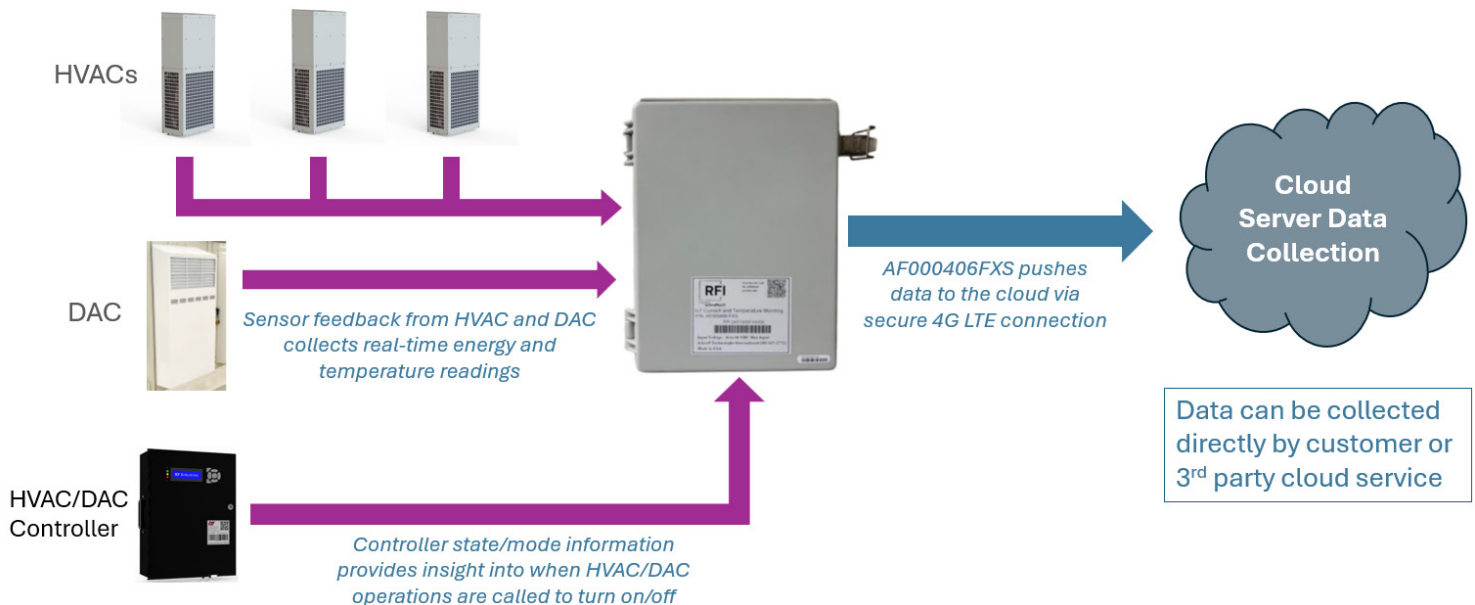
SPECIFICATIONS

Temperature Range °F	Operating: -20 to 140 Storage: -40 to 158
Input Voltage, VDC	36 to 60 ¹
Power Consumption	<5W – Monitor only (25W max)
Sensors	(5) thermistor temperature sensors, 15ft (1) AC and (1) DC Current Sensors Measure AC Current 0-250A & DC Current 0-100A
HVAC interface	Up to 3 HVAC Control signals: 24VAC (R), Fan (G), Heating (W), Cooling (Y), Common (C)
Communication	Wireless 4G LTE connectivity (customer provided SIM card)
Dimensions, inches	External Height: 9-1/16 External Width: 7-1/2 External Depth: 4-1/2
Conduit connector	1/2-inch



¹ Built-in suppression for fast transients above 72VDC (Class 4 as per IEC 61000-4-5)

HOW DOES IT CONNECT?



ABOUT RF INDUSTRIES

RF Industries (RFI) designs and manufactures a broad range of interconnect products across diversified, growing markets including wireless/wireline telecom, data communications and industrial. Our products include RF connectors, coaxial cables, data cables, wire harnesses, fiber optic cables, custom cabling, energy-efficient cooling systems and integrated small cell enclosures.

