

AI-500-050 Series FMU Field Monitoring Unit

Overview

The AI-500-050 series of controllers provides a cost-effective, easy to integrate means of adding monitoring of communications and field I/O to any project. It is designed for extreme temperature applications and has low power requirements, making it suitable for solar powered applications. The unit comes in a variety of configurations supporting all common communication methods.

Several configurations are available with combinations of Ethernet, Wi-Fi, and Cellular Modem. All units come with multiple digital inputs and outputs as well as analog inputs. An RS-232 interface port is standard on the units, with additional RS-232/485 optional.

The unit works in conjunction with the Glance Platform, providing optional connectivity to the cloud-based Glance solution. Simply connect the I/O to add monitoring and control to your equipment. Also available are interfaces to field components via serial and Ethernet connectivity, using both standard and custom protocols.

Features

- ✓ Low cost Internet connectivity solution
- ✓ Small form factor
- ✓ Variety of connectivity options
- ✓ Compatible with Glance platform
- ✓ GPS enabled for self-locating and mobile position tracking
- ✓ Low power consumption
- ✓ Local data storage, supporting store and forward schemes when offline
- ✓ Real Time Clock supporting scheduling applications
- ✓ Integral battery back-up for power fail reporting
- ✓ OBD-II Port for vehicle monitoring (optional)



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Hardware Specification



	AI-500-050	AI-500-051
Connectivity		
A Cell Modem *	Yes	No
B Wi-Fi	Optional	Optional
C Ethernet Port (10/100Base-T)	Yes	Yes
D RS-232 Port	Yes	Yes
E RS-485 Port or RS-232 Port	Optional	Optional
Industrial I/O		
F Analog Inputs	8 (4 x 120V AC, 4 x 24V DC)	
G Digital Inputs	8 (4 x 120V AC, 4 x 24V DC)	
H Digital Outputs	4 (2 x NO/NC 2A Relay, 2 x Open Collector)	
I OBD-II interface	Optional	
Miscellaneous		
Operating Systems	µC/OS-II	
J GPS	Yes	No
Operating Temperature	-40°C to 80°C	
Humidity	5-95% non-condensing	
Dimensions	5.2" x 5.2" x 2.4"	
K Input Voltage	10-30v AC or DC	
Real Time Clock	Yes	
Flash Disk	Yes	
L Battery Backed Memory	Yes	
Also suitable for...		
Solar/battery powered	Yes	
Vehicle monitoring	Yes	
Scheduling	Yes	

* Specify carrier at time of order
 ** Custom configurations available for volume orders

