AI-500-085-03 Series Glance Preempt & Priority Field Monitoring Unit

Overview

The AI-500-085-03 Glance Preempt & Priority FMU series of controllers provides a cost-effective, easy to integrate means of adding priority & preemption as well as monitoring traffic intersections status and health. The unit has a built-in Cellular, GPS and 900MHz radio to make priority and preemption easy to configure and simple to set up. This small form factor device is capable of remotely switching NEMA 5-15 power outlets inside the ITS cabinets. It is designed for extreme temperature applications and has low power requirements, making it suitable for solar powered applications.

The unit comes standard with a built-in Ethernet, Cellular Modem, GPS and 900MHz radio. All units come with multiple digital and analog IO as well as 8 relay contacts to trigger preemption commands to the traffic signal controllers. The unit is also capable of sending priority requests directly to the traffic controller using ethernet communications.

The unit works in conjunction with the Glance Platform, providing connectivity to the cloud-based Glance solution. Simply install into your traffic intersection to add Glance priority and preemption as well as monitoring to your traffic cabinet's status and health.

Features

- ✔ Low cost Internet connectivity solution
- ✔ Small form factor
- ✔ Controller Passthrough Communications
- ✔ Remotely switchable outlets
- ✔ Compatible with Glance platform
- ✔ GPS enabled for self-locating

- ✔ Supports transit priority capable controllers to keep signals in coordination
- ✔ Redundant communications supporting both 900MHz radio and Cellular communication
- ✔ Simple to configure priority and preemption zone using map based configurator.
- ✔ Integral battery back-up for power fail reporting

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Hardware Specification

Applied INFORMATION

AI - 500-085-03

Connectivity

Cell Modem	Yes
Wi-Fi	No
Ethernet Port (10/100Base-T)	Yes
900 MHz Radio	Yes
GPS	Yes

Industrial I/O

Analog Inputs	8 (4 as 120VAC/12-28VDC selectable, 4 as 12-28VDC only)
Digital Inputs	8 (4 as 120VAC/12-28VDC selectable, 4 as 12-28VDC only)
Digital Outputs	10 (2 as NO/NC Relay, 8 as 24VDC ground true)

Power

Outlets	NEMA 5-15 (4 x 120V, remotely switchable rated 15 amp total load)

Miscellaneous

Operating Systems	µC/OS-II
Manual Preempt Selector	Yes
Operating Temperature	-40°C to 80°C
Humidity	5-95% non-condensing
Dimensions	8.5 W x 5.5" H x 3" D
Input Voltage	9-36VDC
Real Time Clock	Yes
Flash Disk	Yes
Battery Backup	Yes

Also suitable for…

Intersection Monitoring	Yes
Scheduling	Yes

** Custom configurations available
   for volume orders