

iVPI with integrated WIU

PTC Wayside Interface Solution



Full-featured iVPI vital interlocking controller with integrated vital Wayside Interface Unit.

Capable of providing status of all interlocking inputs to the PTC network, and optionally receiving code line (non-vital office request) inputs from the PTC network.

APPLICATIONS

- Interlocking locations where PTC capability is required.
- WIU Overlay monitoring of large relay interlockings (for example).
- WIU Overlay where future interlocking control may be desired.

Largest I/O capacity available in the NA market for single WIU system.

PTC network can provide code line I/O to interlocking controller in addition to standard WIU function.

FEATURES

- Up to 320 input points per unit available.
- Multiple units can be combined for larger arrangements that appear to a PTC network as a single, large WIU.
- WIU communication I/O and user configurations on dedicated WIU card.
- Can support external touch-screen for WIU control/status display if requested.
- Simultaneous AAR ITC and ACSES protocol operation.

ADVANTAGES

- Full iVPI I/O capabilities including track circuits/ broken rail detection.
- WIU control/status interface common to all Alstom WIU products.
- Centralized WIU reporting of entire interlocking and any other networked Alstom equipment, reducing PTC radio requirements.
- Ease of application.
- User-friendly design tool for defining configuration data and boolean application logic. Same design tool as other Alstom WIU products.

APPLICATIONS COMPARISON TABLE

	microWIU	iWIU i	VPI	Genrakode 3
Optimized for Solar Applications	X			
Hand Throw Switch Monitoring	X	X	X	X
Signal Aspect Monitoring	X	X	X	X
Signal Aspect Control			X	X
Hazard Detection Monitoring	X	X	X	X
Broken Rail Detection		X	X	X
Interlocking Control			X	
Coded Track Circuit		X	X	X
Power Switch Controlling			X	

FEATURES COMPARISON TABLE

	Standalone		Integrated	
	microWIU	iWIU	iVPI	Genrakode 3
Optimized for small applications	X			
Based upon iVPI hardware platform		X	X	
Low power consumption	X			
Vital inputs per unit	16	48	320	8
Voltage and Current detection	X	X	X	
Stackable	X	X	X	
Integrated touch screen user interface	X	Optional	Optional	Optional
Wall mounting	X	X	X	X
Shelf mounting	X	X		X
19" rack mounting			X	X
Integrated Terminal Block I/O	X	X		X

FEATURES COMMON TO ALL UNITS

- Features meet AREMA and AAR specifications for WIU's
- Integrated web server
- Simultaneous support for ITC and ACSES protocols
- Site specific storage device (USB)
- 4 WIU Ethernet Ports
- 2 WIU USB Host Ports
- EMP Class C/D protocols
- ITP protocols
- TCP/UDP/IP
- Remote Configuration and Diagnostics
- Remote Systems Management
- Embedded Data Logging
- Integrated Temperature Alarm/Monitoring
- Built-in Status/Report Generator