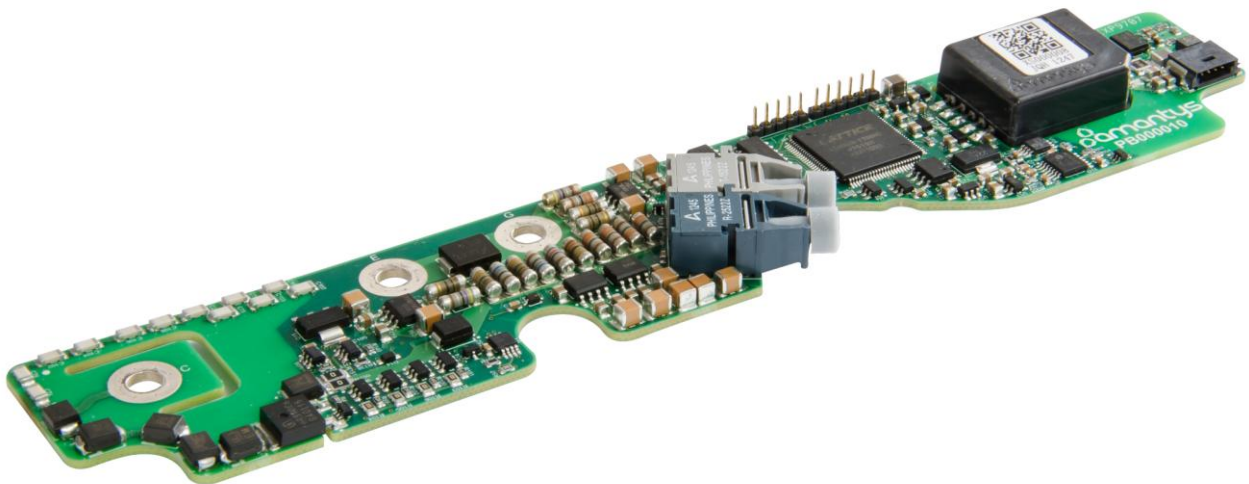


The AP12 and AP17 Amantys Gate Drives incorporate Amantys Power Insight technology to allow remote configuration of the IGBTs in a converter system. Capable of driving IGBT modules from different manufacturers, these gate drives reduce inventory for users who want flexibility in design and sourcing. The gate drives are suitable for 2-level and 3-level converters in a wide variety of applications.



Key Benefits

- User configurable
 - Reduced inventory as one gate drive can support IGBT modules from multiple vendors
 - Simplified design and commissioning
- Improved converter management
 - Multiple fault codes for error detection
- Condition monitoring of power electronics
 - Monitor key parameters remotely and safely
 - Long term tracking fault codes
- Compatible with commercial alternatives
 - Drop in replacement with same fibre-optic and power interfaces
- High reliability design and testing
 - Manufactured to ISO9001
 - EMC tested to EN50121-5, EN50121-3-2, EN55011
- Designed and tested to traction isolation standards

Outline Specification

- Single channel Plug & Play solution for 190x140mm and 140mmx130mm packages
 - Fits within 190x140mm package outline
- User configurable parameters
 - Turn on and turn off resistors (R_{gon} , R_{goff})
 - Soft turn off resistor ($R_{goffsoft}$)
 - Fault lock out time (t_{lock})
 - Two level or three level mode
 - Feedback protocol can be modified to be compatible with legacy systems
- Current ratings up to 3600A
- On Board isolated DC-DC power supply
- Type I and type 2 short circuit protection
- Under voltage lockout
- Monitors all rails for safe start-up with IGBT held off
- Active clamping mechanism (two zone)
- Insulation designed for traction and adjustable speed drive applications



Medium voltage motor drives



Locomotive traction & marine drives



Wind turbine & solar inverters



High voltage DC infrastructure

Amantys Power Insight™

Amantys Power Insight™ technology provides two way communication from the central controller or Power Insight Adapter to the gate drive. The converter designer can perform the following functions:

- Remote configuration of the gate drive
- Condition monitoring of key IGBT parameters
- Examine a wide range of fault code outputs
- Monitor faults codes during the lifetime of the converter

Applications

Amantys gate drivers are suitable for all high power converter applications. Typical uses include:

- HVDC infrastructure
 - HVDC and FACTS
- Medium voltage converters
- Medium voltage motor drives
- Solar inverters
- Traction converters
- Wind turbine inverters

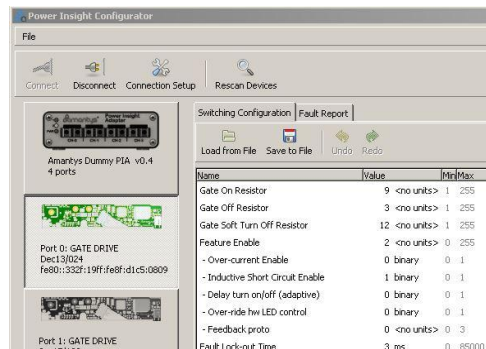
Supporting Products

Power Insight Adapter



The Power Insight Adapter allows a Windows based PC to interface to four Power Insight enabled gate drives.

Power Insight Configurator



The Power Insight Configurator is a Windows PC based software tool that can be used to configure a Power Insight enabled gate drive and monitor the fault reports generated by the gate drive.

Power connector options

