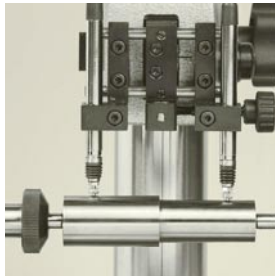




Smooth processes due to interference-free products



WHY ARE INTERFERENCE-FREE PRODUCTS SO IMPORTANT?

Motors, valves and caps are components which really put the interference-free characteristics of PCs and components to the test. High-frequency interference spectra occur when switching inductive and capacitive loads due to steep edges in current and voltage fluctuations. Furthermore, shocks, vibrations or extreme temperatures in the environment make PC based solutions, for example, difficult. The solution: all-round protected PC boards.



In order to guarantee interference-free boards, ADDI-DATA implements effective protective measures which have been tried and tested over the last 20 years.

Optical isolation up to 1000 V

against fast transients, overvoltages and ground loops. ADDI-DATA selects opto-couplers, DC/DC converters and connectors carefully and the layout of the boards has a 3.2 mm creeping distance (in accordance with the IEC 61010-1 standard).

Consequent separation of analog and digital signals

limits the influence of high-frequency logic signals or intensive switching to a minimum. This separation also applies to the connectors.

Short-circuit, overtemperature and overvoltage protection

as well as filters for the inputs and outputs

EMC tests in an external accredited laboratory

We measure the level of interference emitted by the device under test and the interference-free properties of the device under test when submitted to electromagnetic influences.

Digital 24 V I/O instead of TTL for industrial applications

24 V signals provide a significantly greater signal-to-background ratio than normal TTL sensors when used in severe industrial environment.

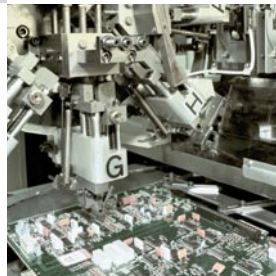
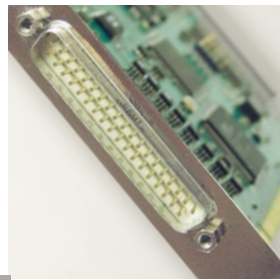
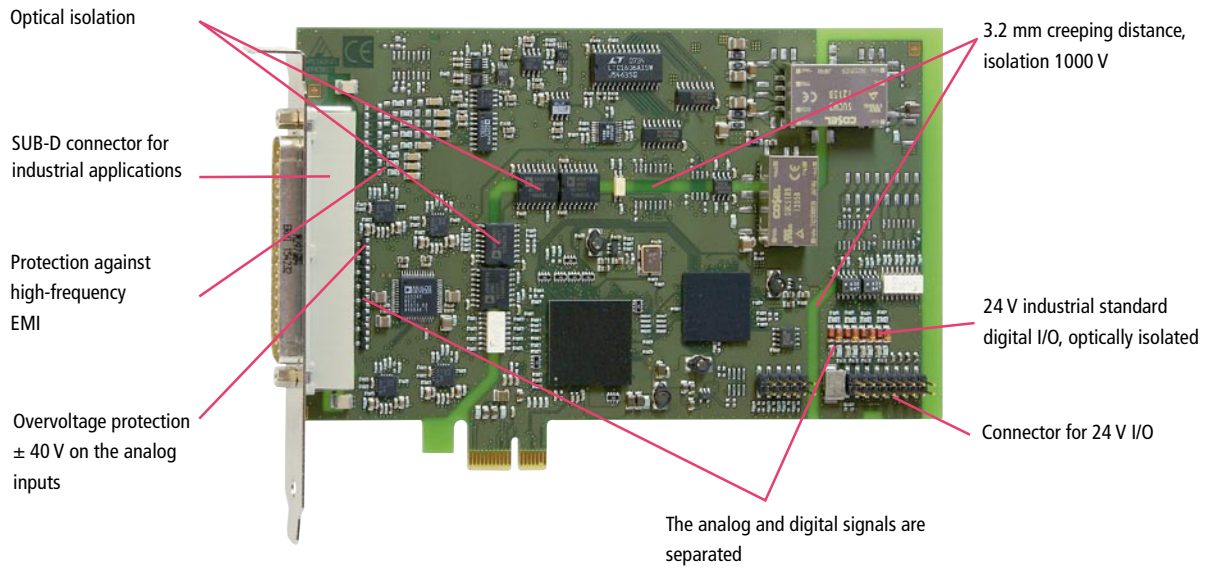
Robust standard SUB-D connectors for industrial applications

for PC boards and accessories enable twisted-pair round cables with different cross-sections and special shielding to be used.

ADDI-DATA SAFETY

- Optical isolation up to 1000 V
- Analog and digital signals are separated
- Protection against short-circuits, overtemperature and overvoltage
- Input and output filters
- Industry-standard SUB-D connectors





DEDICATED ACCESSORIES

A peripheral hardware must be as reliable and interference-free as a PC board used for data processing.

This is why ADDI-DATA offers a broad range of dedicated accessories for PC boards and Ethernet modules suited for use in the rough industrial environment.

Whether screw terminal panels, relay output boards or connection cables – our accessories all have the same high safety and EMC standards as the PC boards and Ethernet modules.

Industry-standard SUB-D connectors:
robust and interference-free

Protection against EM fields:
The shield of the cable is connected to the metallised hood of the SUB-D connector. The connection between housing and shield creates an earthing on both sides, which is essential for the protection against EM fields.

High noise immunity:
More protection through adapted pin assignment of the cables. The way the cable leads are twisted in pairs corresponds to the pin assignment of the boards.