

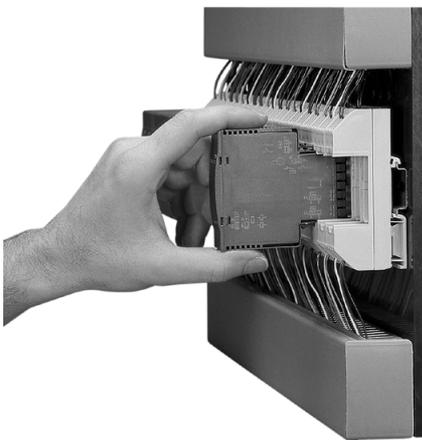
Contrans I – System description



In the field of process automation, the functionality of input or output modules of programmable logic control or distributed control systems is often inadequate for applications. For the ensuing signal matching between the field and control levels, the interface family Contrans I has a comprehensive program involving electrically isolated signal processing components for the supply of power to transmitters, for load increasing, for measuring temperatures, setting alarms, also including further modules for processing binary signals such as switch amplifiers, relays and optocouplers.

Analog modules are suitable for transmitting the HART field communication protocol. A central PC makes it possible to parameterize and centrally configure the underlying field unit level with the aid of special FSK bus amplifiers. All modules are optionally provided with intrinsically safe signal circuits.

Contrans I – Separation of wiring and function



The Contrans I family stands out with its modular design, which permits electronic units to be plugged in a standard sockets or backplanes. Only the DIN rail sockets are required for wiring. This makes it easy to conduct functional matching even during the commissioning phase.

If maintenance becomes necessary, the defective module can be removed and replaced by just plugging the substitute into the standard socket. The replacement is done. There is no necessity to disconnect and reconnect wires. One source of error is thus removed. No expert is required.

In order to reduce the expenditure for planning and wiring, prewired backplanes for 8 or 16 plug-in function modules are provided. Power is fed from a central source. A multi-core system cable with two pluggable ends enables all modules to be connected directly to the input and output modules of the control unit.

The result: reduced expenditure for planning, documentation and wiring; also reduced time for installation, combined with extreme maintenance- and user-friendliness. All of these makes Contrans I a very cost-effective solution.

Contrans I – socket mounting

Type of modules for binary signals:

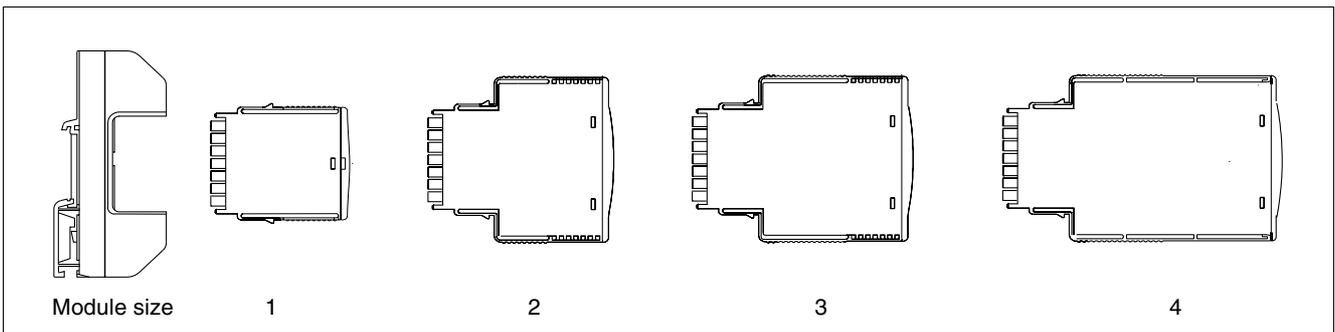
- Switch Amplifier
- Solenoid Driver
- Coupling Module

Type of modules for analog signals:

- Input Isolator
 - Loop Powered Supply
 - Isolating Power Supply
 - Input Isolator
 - Input Isolator, programmable
 - Universal Isolator
- Transmitter
 - Temperature Transmitter
 - Intelligent Transmitter
- Output Isolator
 - Loop Powered Isolator
 - Isolating Driver
- Trip Amplifier

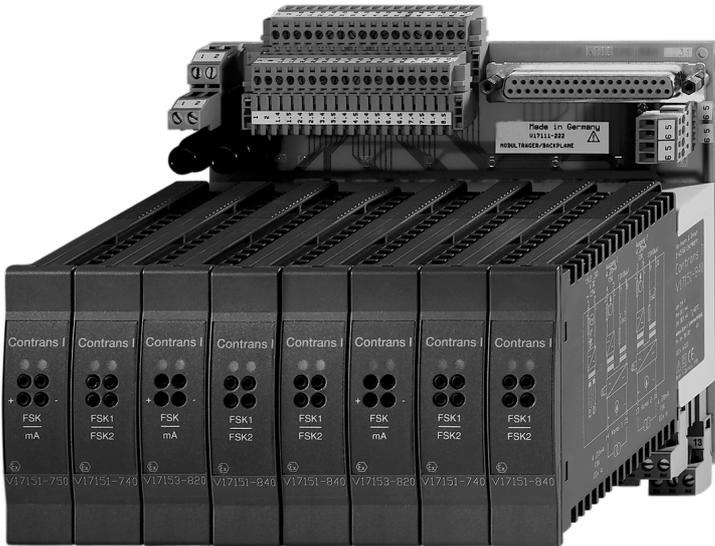


The size of the modules depends to the functionality. The size 3 is not used today.



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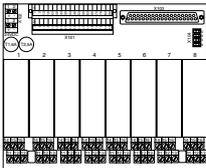
Contrans I – Backplane mounting



Type of Backplanes:

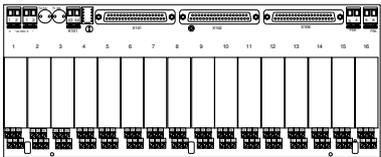
8-way

- 8 slots for modules
- 1 slot for the FSK bus amplifier (HART)
- Power supply with separate fusing for the power distribution to the modules and for the signals



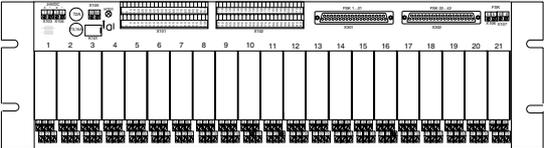
16-way

- 16 slots for modules
- 1 slot for the FSK bus amplifier (HART)
- Redundant power supply and separate fusing for the power distribution to the modules and for the signals. Dry contact for signalling of a fuse fault



21-way

- 21 slots for modules
- 2 slots for the FSK bus amplifier (HART)
- Redundant power supply and separate fusing for the power distribution to the modules and for the signals. Dry contact for signalling of a fuse fault
- Especially design for using with 19" racks



Customer-specified solutions

Backplanes can be fit according to customer requirements.