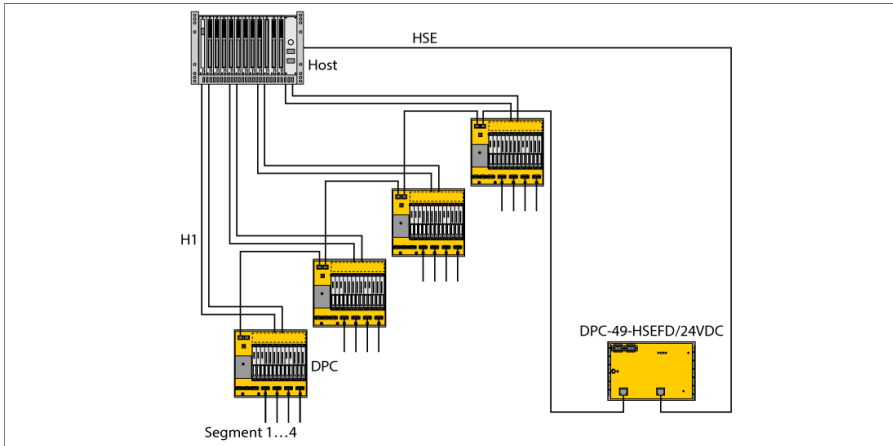


Diagnostic Module FOUNDATION Fieldbus DPC-49-ADU



The DPC system (Diagnostic Power Conditioner) is a power supply system for the installation of FOUNDATION™ fieldbus H1 segments. It provides extensive diagnostic options for monitoring FOUNDATION™ fieldbus segments and thus supports plantwide asset management.

A DPC system consists of one or more DPC-49-MB-RC module racks, each with up to eight DPC-49-IPS power supply modules and one DPC-49-ADU or DPC-49-DU diagnostics module. Up to four H1 segments for each module rack can be operated and monitored redundantly in the FOUNDATION™ fieldbus network. The diagnostic data of the H1 segments can be transmitted via the HSE interface module DPC-49-HSEFD/24VDC to the higher level Asset Management system.

The diagnostic module DPC-49-ADU is used as a communication and diagnostic interface between the H1 segments and the power supply module. The diagnostics module monitors the electrical parameters and the communication parameters of the H1 segments. Operation without diagnostic module is possible.

The diagnostic information is collected in the device and transmitted via the HSE interface module to the higher fieldbus level (e.g. the host) as diagnostic and alarm data. Thereby the modules can be plugged and unplugged during operation (Hot swap-able in run).

The device features LEDs indicating the operating status of the H1 segments. A pre-alarm is indicated by a yellow LED, the main alarm by a red LED. Additionally, alarm signals can be analysed via a relay contact.

- Long-term diagnostics for 4 H1 segments
- Local diagnostics via LEDs
- Alarm signal via relay contact
- Complete galvanic isolation

Dimensions

Type	DPC-49-ADU
ID	6882012
Power consumption	≤ 0.8 W
Supply voltage	via the backplane
Current consumption	< 100 mA
Galvanic isolation	All-round galvanic separation, test voltage 500 VAC
Diagnostics	1 x relay
Switching current	≤ 1000 mA
Switching voltage	≤ 30 VDC
	Galvanically separated against other electronic parts
Displays/Operating elements	
Operational readiness	1 x green/red
Alarm	4 x yellow/red
Protection class	IP20
MTTF	126 years acc. to SN 29500 (Ed. 99) 40 °C
Ambient temperature	-20...+60 °C
Housing material	Plastic, Yellow
Dimensions	18 x 118 x 103 mm

