

FOUNDATION fieldbus Diagnostic Module DPC-49-DU



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 module racks, each of which can take up to eight DPC-49-IPS1 power supply modules and one DPC-49-ADU or DPC-49-DU diagnostic module. Up to four H1 segments per 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 DPC-49-HSEFD/24VDC HSE field device to the higher level Asset Management System (only in conjunction with the diagnostic module DPC-49-ADU).

The DPC-49-DU monitors the external power supply at the module rack, the FOUNDATION™ fieldbus-H1 power modules and their redundant operation mode. The diagnostic function can be switched off separately for each segment.

The device features three LEDs indicating the operating status. Alarm messages are indicated by a red LED. Alarm signals are also output via a relay contact.

- Redundancy monitoring of 4 H1 segments
- Local diagnostics via LEDs
- Alarm signal via relay contact
- Complete galvanic isolation

Dimensions

Type	DPC-49-DU
ID	6882021
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	2 x green
Alarm	1 x red
Protection class	IP20
Ambient temperature	-20...+60 °C
Housing material	Plastic
Housing color	Yellow
Dimensions	18 x 118 x 103 mm

