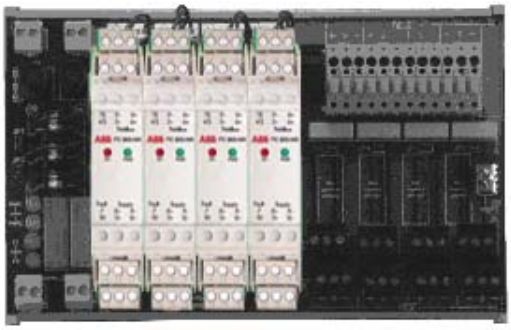
Data Sheet

Field^{IT}

TU 900-NR4 Termination Unit

Benefits

- Termination Unit for Power Conditioners
- Up to 32 V DC supply voltage
- Redundant power supply
- Combined fault output
- 4 fieldbus segments



Function

The Termination Unit allows for the fieldbus host, device wiring and power supply to be brought together with the Power Conditioner modules to create a complete system. The Power Conditioner modules supply power to a Fieldbus segment through an impedance matching circuit which is compatible with the Fieldbus communication. This power is used to both run the devices and drive the communication.

Functionality

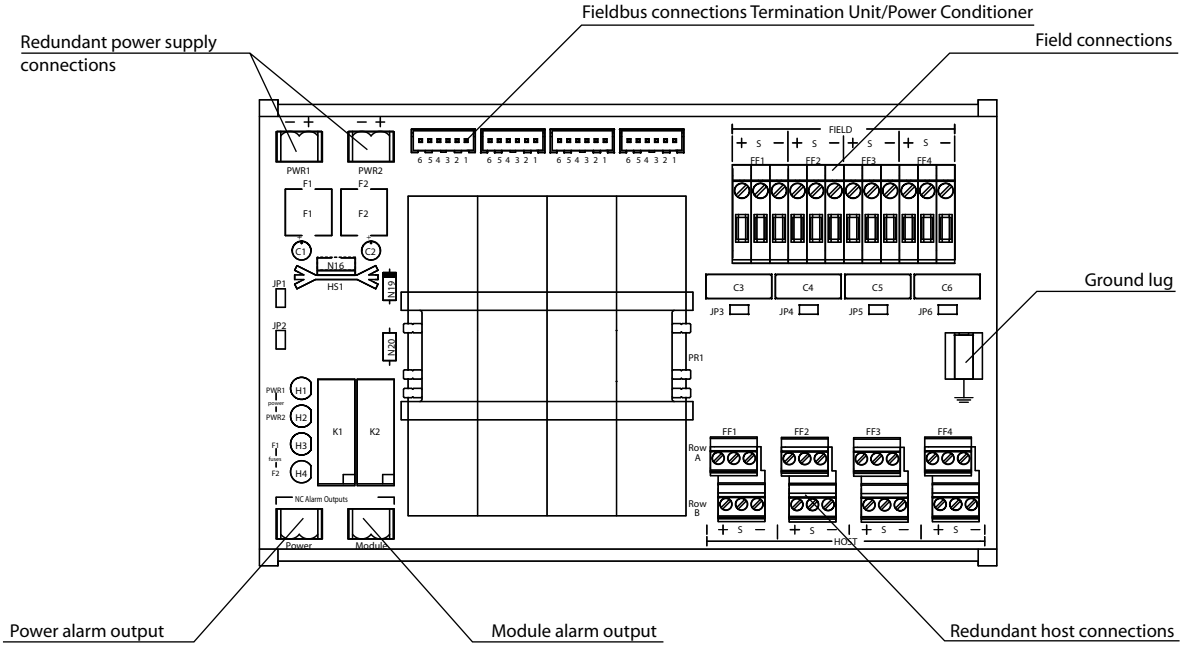
General

The Power Conditioner modules supply power to a fieldbus segment through an impedance matching circuit which is compatible with the fieldbus communication. This power is used to both run the devices and drive the communication. In this manner, 1A worth of field devices can be seamlessly connected to each fieldbus segment with no interference to the digital communication. A maximum of four Power Conditioner modules may be mounted on a Termination Unit with each module independently linked to a fieldbus segment.

The Termination Unit allows for the fieldbus host, device wiring and power supply to be brought together with the Power Conditioner modules to create a complete system. As part of this system the Termination Unit provides the proper connections for the Power Conditioner modules, including redundant power supply connections and a combined fault output. It also provides easily accessible connections to land the host and field device wiring.

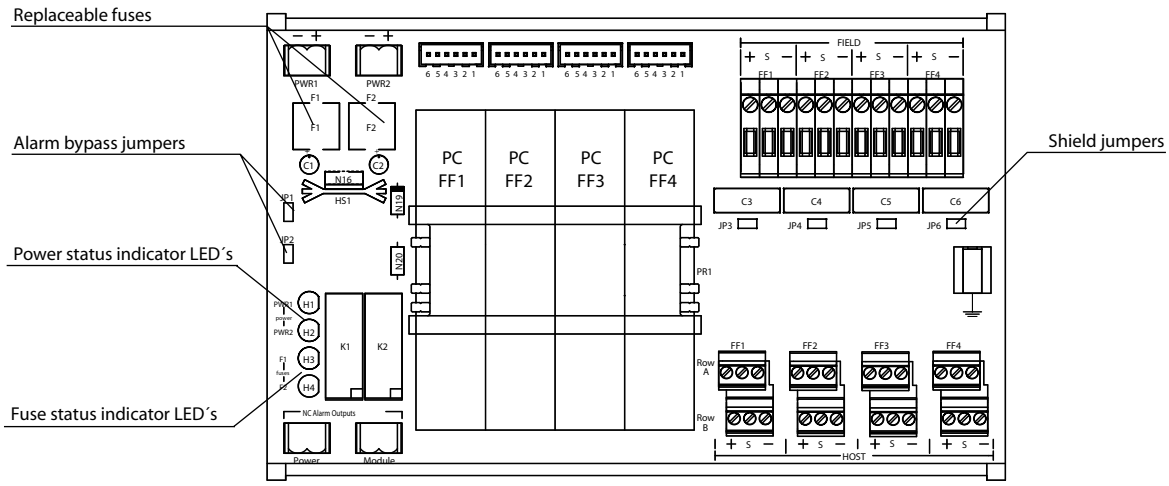
For more information see operating instructions TU 900-NR4, ident number 3BDD011864.

Connections



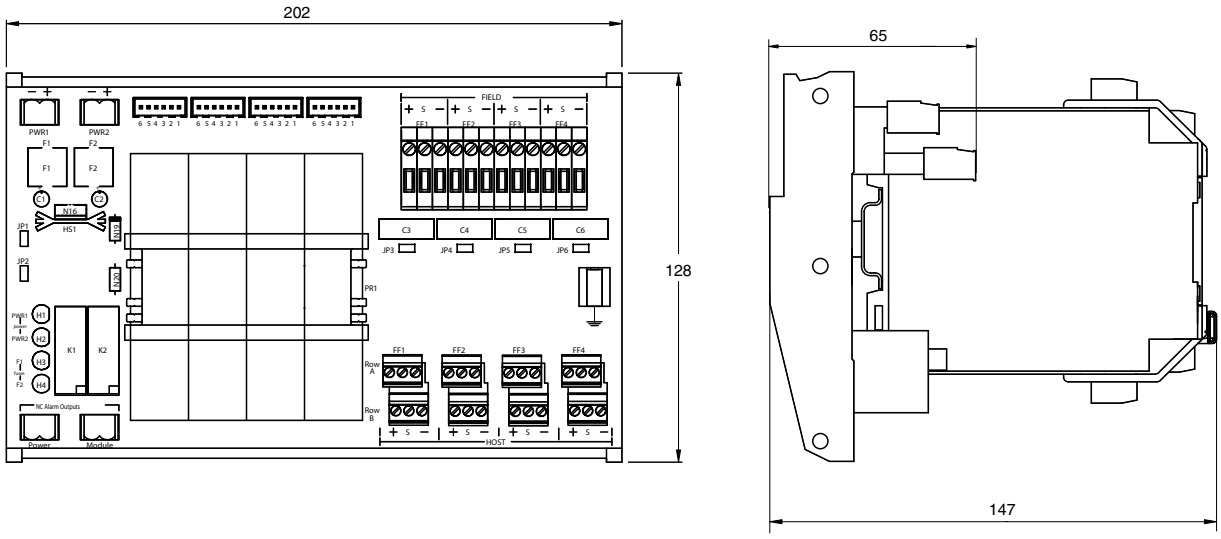
Indicating and operating elements

Front view



LED	Status	Meaning
Power status PWR1 or PWR2	ON	Input power supply connected and above 12 V DC.
	OFF	Input power supply disconnected or below 12 V DC.
Fuse status F1 or F2	ON	Matching fuse is defective.
	OFF	Matching fuse is ok.

Dimensions



Technical data

Supply	Connection	redundant
	Rated voltage	20 ... 32 V DC
	Rated current	7 A
Fieldbus interface	Number of segments	4 simplex (in redundancy)
	Host	general purpose host e. g. LD 800HSE
Indicators/operating means	Fault signal	alarm relay output
Directive conformity	Electromagnetic compatibility	standards
	Directive 89/336/EC	EN 61326
Standard conformity	Electromagnetic compatibility	NE 21
	Protection class	IEC 60529
	Fieldbus standard	IEC 61158-2
	Shock resistance	DIN EN 60068-2-27
	Vibration resisance	DIN EN 60068-2-6
Ambient conditions	Operating temperature	-20 ... 60 °C (253 ... 333 K)
	Storage temperature	-40 ... 85 °C (233 ... 358 K)
	Relative humidity	< 75 % non-condensing
	Degree of soiling	max. 2, according to IEC 60664
	Shock resistance	15 g, 11 ms
	Vibration resisance	1 g, 10...150 Hz
Mechanical specifications	Connection type	screw terminals
	Core corss-section	2.5 mm²
	Protection class	IP20
	Weight	approx. 600g
	Mounting	DIN rail in acc. to EN 50022

For more information on Field^{IT}, contact us at fieldbus@de.abb.com
For the latest information on ABB visit us on the World Wide Web at http://www.abb.com

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