

NSD570

Product Data Sheet

1KHW001179R2011 NSD570

Teleprotection terminal

TRANSMISSION MODE Full duplex, bidirectional	PROTECTION COMMAND MODES Blocking, permissive tripping and direct tripping	DIGITAL-INTERFACE COMMAND CAPACITY Up to 8 simultaneous commands with G3LD	ANALOG-INTERFACE COMMAND CAPACITY Up to 4 dual-tone commands, channel-bandwidth dependent
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ABB 1KHW001179R2011 NSD570 is a teleprotection terminal for transmitting protection commands between power-system locations. The NSD570 platform supports bidirectional blocking, permissive and direct-trip schemes, with line-interface selection defining the available communication medium and command capacity.

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VERIFIED TECHNICAL DATA

Transmission mode	Full duplex, bidirectional
Protection command modes	Blocking, permissive tripping and direct tripping
Digital-interface command capacity	Up to 8 simultaneous commands with G3LD
Analog-interface command capacity	Up to 4 dual-tone commands, channel-bandwidth dependent
Digital base interface rates	56 or 64 kbit/s with the applicable line interface
Digital electrical interface choices	RS-422/V.11, X.21/X.24, RS-530 or RS-449
Optional E1/T1 interface rates	2.048 Mbit/s E1; 1.544 Mbit/s T1
Analog line connection	Four-wire; 600 ohm or high-impedance setting
Path protection arrangement	1+1 main/standby with two line interfaces
Path switchover time	1 ms maximum in the documented 1+1 arrangement

ADDITIONAL PRODUCT DATA

Embedded operation channel	Remote monitoring, configuration and alarm reporting
Network addressing	Terminal addressing to protect against channel crossover
Equipment rack format	19-inch rack, 4U
Board height	3U
Teleprotection performance standard	IEC 60834-1

DOCUMENTED USE SETTINGS

Thermal Electricity and Hydroelectric Power Generation: Combined-Cycle Power Generation.

Regional Electricity Networks and Interconnected Power Systems: Interregional Power Transmission.

Public Electricity Supply and Industrial Power Distribution: Urban Electricity Distribution.

SYSTEM COMPATIBILITY

Engineer the teleprotection command scheme together with the installed line interface at both ends. Blocking, permissive and direct-trip commands have different channel-performance needs; terminal addressing and the embedded operation channel support correct pairing and remote supervision.

PRODUCT EVIDENCE

ABB NSD570 technical data 1KHW000892-EN and ABB Protection Communication Systems, 2015