

AUTOMATIC TRANSFER SWITCH



The Norden Automatic Transfer Switch (ATS) offers a dependable solution for managing power continuity and safety for critical systems. Designed to automatically and seamlessly switch from the primary to a secondary power source upon failure, this ATS ensures uninterrupted operation of essential equipment. It is equipped with comprehensive monitoring capabilities that allow for the real-time tracking of load currents and system status.

This ATS not only alerts users through various methods—including audible and visual signals, email, and SNMP notifications—but also provides detailed power parameter information accessible via RS232 serial communication. For more advanced needs, the intelligent ATS model includes a hot-swap SNMP card that enables enhanced remote monitoring and management functionalities. Users can leverage HTTP/HTTPS and SNMP protocols to remotely access input/output status and receive detailed alarm notifications, ensuring proactive management of power supply systems.

FEATURES

Rapid Transfer Technology

Seamlessly switches between Source A and Source B within 10-16 milliseconds to maintain uninterrupted power supply for IT devices.

Energy Efficiency Optimization

Enhances energy management in IT environments through real-time monitoring of current and voltage and includes automatic alarms for threshold exceedances.

Overload Protection

Features a built-in overload protector to safeguard IT devices from accidental overload damage.

Upgradable Design

Allows users to easily upgrade from a basic to an intelligent ATS by inserting a hot-swappable Network Management Card, enabling remote monitoring and management via a web interface or SNMP platform.

Specifications	Basic Automatic Transfer Switch (Locally Monitored)	Intelligent Automatic Transfer Switch (Remotely Monitored)
Power Input	Power Supply A/B	Power Supply A/B
Power Transfer Time	10 ~16 ms	10 ~16 ms
Input Voltage	230 V	230 V
Frequency	50 / 60Hz	50 / 60Hz
Max. Input Load Current	16A / 32A / 10A	16A / 32A / 10A
Input Type	Horizontal 1U : IEC 60320 C20 Socket Inlet / IEC 60309 Industrial Plug Input	Horizontal 1U : IEC 60320 C20 Socket Inlet / IEC 60309 Industrial Plug Input
	Horizontal 2U: IEC 60309 Industrial Plug	Horizontal 2U: IEC 60309 Industrial Plug
Output Voltage	230 V	230 V
Max. Output Load Current	16A / 32A / 10A	16A / 32A / 10A
Outlet Type	IEC 60320 C13 & C19 , IEC 60309 Industrial Connector	IEC 60320 C13 & C19 , IEC 60309 Industrial Connector
Operating Temperature	0°C to + 45°C	0°C to + 45°C
Storage Temperature	-20°C to + 70°C	-20°C to + 70°C
Operating Humidity	5 ~ 95 %	5 ~ 95 %
Storage Humidity	5 ~ 95 %	5 ~ 95 %
Operating Elevation	0 – 3000 Meters	0 – 3000 Meters
Serial Communication Port	RS232 Port x 1	RS232 Port x 1
Net Port	None	10 / 100Mbps Port x 1
Logical Port	Φ3.5mm Earphone Jack x 1 (To connect audible and visible alarm)	Φ3.5mm Earphone Jack x 1 (To connect audible and visible alarm)

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Specifications	Basic Automatic Transfer Switch (Locally Monitored)	Intelligent Automatic Transfer Switch (Remotely Monitored)
Access Mode	Serial Port	Serial Port, SNMP V1 / V2c / V3, Http / Https, Telnet
Monitoring Parameters	Voltage [V] , Current [A]	Voltage [V] , Current [A]
Alarm [When total load current/voltage exceed the threshold and Power Failure]	Buzzer beeping & Display flashing	Buzzer beeping & Display flashing, Alarm Email / SNMP trap information
LED Screen (3 Digits in Red) Display Accuracy	Current : $\pm 1\%+2$ digits Voltage : $\pm 1\%+3$ digits	Current : $\pm 1\%+2$ digits Voltage : $\pm 1\%+3$ digits
Mounting Style	2 Ends Brackets	2 Ends Brackets
Mounting Distance	465 mm	465 mm

AUTOMATIC TRANSFER SWITCH ORDERING GUIDE

ATS	"U" Size & Current Carrying Capacity	Input , Output Combinations & Model	Colour (XX)
NATS	1U : 1U (Supports 16A only) 2U : 2 U (Supports 32A only)	1 : 02 x IEC60320 C20 Socket + 06 x C13 + 02 x C19 (16A) 2 : 02 x IEC60320 C20 Socket + 08 x C13 + 01 x C19 (16A) 3 : 02 x IEC60309 Female Plug + IEC60309 Connector (16A) 4 : 02 x IEC60309 Female Plug + 12 x C13 + 04 x C19 (32A) 5 : 02 x IEC60309 Female Plug + 16 x C13 + 2 x C19 (32A) 6 : 02 x IEC60309 Female Plug + IEC60309 Connector (32A) 7 : 02 x IEC60320 C14 Socket + 12 x C13 (10A)	BK : Black

SNMP CARD ORDERING INFORMATION

Part No	Description
NATS-NMC01	SNMP Card V3 [To Upgrade Basic ATS to Intelligent ATS]

*** Basic Automatic Transfer Switch can be upgraded in to Intelligent Automatic Transfer Switch by adding SNMP card into it. ***

Part No & Description (For Example)

Basic ATS :

NATS-1U2BK - 1U (02 x IEC 60320 C20 Input Socket) + 09 Way (08 x C13 + 01 x C19) Output socket, 16 A, Automatic Transfer Switch.

Intelligent ATS :

NATS-1U2BK - 1U (02 x IEC 60320 C20 Input Socket) + 09 Way (08 x C13 + 01 x C19) Output socket, 16 A, Automatic Transfer Switch.

NATS-NMC01 - SNMP Card V3 [To Upgrade basic ATS to intelligent ATS]