



NIDS01

ABB Bailey INFI 90 Digital Station Termination Module

Product scope

- Provides the documented digital-station termination and bypass functions.
- Supports manual raise/lower and automatic-mode signalling for electric-drive applications.
- Works with the NICS01 control-station termination arrangement.
- Preserves the model-specific operating and installation limits from the ABB Bailey manual.

Manufacturer source

ABB Bailey instruction I-E96-412A

The exact product record precedes any retained manufacturer manual extracts. Only pages relevant to the current product identity and documented functions are included.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	NIDS01	

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NIDS01

ABB Bailey INFI 90 Digital Station Termination Module

Manufacturer-source product record

This page consolidates only model-specific facts verified in the manufacturer sources listed below. It is included to identify the exact ordering code before the retained manufacturer manual pages.

Module designation	NIDS01 Digital Station Termination Module
Companion module	NICS01 Control Station Termination Module
Primary function	Station termination with bypass capability and electric-drive termination
Supply	+24 V DC
Mounting	One slot in a standard termination mounting unit
Ambient temperature	0 to 70 deg C
Relative humidity	0 to 95% to 55 deg C; 0 to 45% to 70 deg C, noncondensing
Certification	CSA certified for ordinary locations

Official references

- ABB Bailey instruction I-E96-412A, NIDS01 Digital Station Termination Module.

No adjacent ordering option has been treated as part of this configuration. The complete label and installed-system requirements must be checked before replacement.

Function, operation and application

The following model-specific notes are limited to functions and operating relationships documented by the listed manufacturer sources.

Station interface function

NIDS01 terminates the signals used by an INFI 90 digital control station and its associated electric-drive control circuits. The module supports the station connections documented with NICS01 and provides a defined service point between operator hardware and the control system.

Manual and automatic paths

The termination circuits carry manual raise and lower commands and the documented manual/automatic state. In the manual state the station can act directly on the drive-control path; in automatic operation the command path is governed by the connected control-system logic.

Bypass purpose

The bypass arrangement allows the station wiring path to be maintained or serviced according to the official connection diagrams. It does not replace the application logic, permissives or protective interlocks implemented elsewhere in the drive-control scheme.

Integration checks

The NIDS01 and NICS01 pairing, +24 V DC supply, mounting-unit position and field-terminal assignment must all match the installed station. The ambient and humidity limits in I-E96-412A apply to the termination assembly in service.

SECTION 1 - INTRODUCTION

OVERVIEW

The NIDS01 Digital Station Termination Module (IDS) used in conjunction with the NICS01 Controller/Station Termination Module provides bypass capability and an electric drive termination for IISAC01 Analog Control Stations and NDCS03 Digital Control Stations. NDIS01 Digital Indicator Stations can also be connected to the termination module. An NIDS01 termination module connects to the NICS01 termination module with a ribbon cable. Figure 1-1 shows an example NIDS01 application.

INTENDED USER

System engineers and technicians should read this manual before installing and placing the NIDS01 termination module into operation. Do **not** put the IDS termination module into operation until this instruction is read and understood.

INSTRUCTION CONTENT

This manual contains five sections and three appendices.

Introduction	Contains an overview of the features, specifications and a description of the IDS module.
Installation	Describes precautions to observe when handling modules and setup procedures required before module operation. This section discusses dipswitch settings and installation procedures.
Maintenance	Provides a maintenance schedule.
Repair/Replacement Procedures	Details how to replace an IDS module.
Support Services	Describes the support services (spare parts, training, documentation, etc.) available from Bailey Controls Company.
Appendices A, B and C	List the information necessary to configure the IISAC01, NDCS03 and NDIS01 stations.

HOW TO USE THIS MANUAL

Read this manual through in sequence. Read the installation section thoroughly. Do the steps in order. Complete all steps in the installation section before operating the IDS module. Refer to the Table of Contents or Index to find specific information after the module is operating.

INTRODUCTION**GLOSSARY OF TERMS AND ABBREVIATIONS**

Table 1-2 lists definitions of the terms and abbreviations used in this instruction.

Table 1-2. Glossary of Terms and Abbreviations

Term	Definition
Analog	Continuously variable as opposed to discretely variable.
Bus	A channel or path for transferring data, electrical signals and power.
CIS	Control I/O slave module.
DCS	Digital control station. A panel mounted operator device that provides monitoring and allows manipulation of a single process control loop.
Digital	A discretely variable signal usually having only two states, <i>on</i> or <i>off</i> .
DIS	Digital indicator station. A panel mounted device that monitors and displays digital values.
ICS	Controller/station termination module.
MFC	Multi-function controller module. A multiple loop controller with data acquisition and information processing capabilities.
MFP	Multi-function processor module. A multiple loop controller with data acquisition and information processing capabilities.
QRS	Quick response slave module.
SAC	Acronym for analog control station.
Termination Module (TM)	Provides input/output connection between plant equipment and INFI 90/Network 90® modules.
TMU	Termination mounting unit. A card cage that provides housing for INFI 90/Network 90 termination modules.

NOMENCLATURE

Table 1-3 is a list of related hardware.

Table 1-3. Nomenclature

Nomenclature	Hardware/Description
NIDS01	Digital station termination module.
NKDS01	Station cable (PVC).
NKDS11	Station cable (non-PVC).
NKDS02	Station cable with series connector (PVC).
NKDS12	Station cable with series connector (non-PVC).
NKDS03	Station cable with series connector (PVC).
NKDS13	Station cable with series connector (non-PVC).
NKTD01	Station termination cable (PVC).

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GLOSSARY OF TERMS AND ABBREVIATIONS



INTRODUCTION

Table 1-3. Nomenclature (continued)

Nomenclature	Hardware/Description
NKTD11	Station termination cable (non-PVC).
NTMU01	Termination mounting unit, rear mounting.
NTMU02	Termination mounting unit, front mounting.
258436A1	Cable retaining kit used when at least one round cable is connected to the termination mounting unit.
6634408A2 (supplied with NIDS01 termi- nation module)	Ribbon cable from J1 connector of NIDS01 module to J1 connector of NICS01 module.

SPECIFICATIONS

Refer to Table 1-4 for the specifications of the NIDS01 termination module.

Table 1-4. Specifications

Property	Characteristic/Value
Power Requirements	+24 VDC from the 24 VDC bus bar of the termination mounting unit.
Outputs	The outputs of this termination unit are used by stations to control electric drive devices. Raise and lower signals manually raise and lower the electric drive. Power and common signals come from the electric drive and provide power for an external relay or device. The outputs of these terminals are 0 VDC (manual mode) and 24 VDC (automatic mode).
Mounting	Occupies one slot in a standard INFI 90 termination mounting unit.
Environmental:	
Ambient Temperature	0° to 70°C (32° to 158°F).
Relative Humidity	0% to 95% up to 55°C (131°F) (noncondensing).
Air Quality	0% to 45% up to 70°C (158°F) (noncondensing).
	Noncorrosive.
Certification	CSA certified for use as process control equipment in an ordinary (nonhazardous) location.

Specifications subject to change without notice.

SPECIFICATIONS

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SECTION 2 - INSTALLATION

INTRODUCTION

This section explains how to configure and install the NIDS01 Digital Station Termination Module. Read, understand and complete the steps in order before operating the IDS module.

SPECIAL HANDLING

Observe these steps when handling electronic circuitry:

NOTE: Always use Bailey's Field Static Kit (P/N 1948385A1 - consisting of two wrist straps, ground cord assembly, alligator clip and static dissipating work surface) when working with the modules. The kit is designed to connect the technician and the static dissipating work surface to the same ground point to prevent damage to the modules by electrostatic discharge.

Use the static grounding wrist strap when installing and removing modules. Static discharge may damage CMOS devices on modules in the cabinet. Use grounded equipment and static safe practices when working with modules.

1. **Use Static Shielding Bag.** Keep the modules in the static shielding bag until you are ready to install them in the system. Save the packaging for future use.
2. **Ground Bags Before Opening.** Before opening a bag containing an assembly with CMOS devices, touch it to the equipment housing or a ground to equalize charges.
3. **Avoid Touching Circuitry.** Handle assemblies by the edges; avoid touching the circuitry.
4. **Avoid Partial Connection of CMOS Device.** Verify that all devices connected to the module are properly grounded before using them.
5. Ground Test Equipment.
6. **Use Antistatic Field Service Vacuum.** Remove dust from the module if necessary.
7. **Use Grounded Wrist Strap.** Connect the wrist strap to the appropriate grounding plug on the power entry panel. The grounding plug on the power entry panel is connected to the cabinet chassis ground.
8. **Do Not Use Lead Pencils to Set Dipswitches.** Avoid contamination of switch contacts that can result in unnecessary circuit board malfunction.

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INSTALLATION

Table 2-1. NIDS01 Cable Applications

Nomenclature/ Description	Application	Connections	Maximum Length
NKTD01 PVC Termination Cable	Connects the IDS module to stations.	P1 of the IDS module to the NKDS01/11 or NKDS02/12 cable.	0.6 m (2.0 ft)
NKTD11 non-PVC Termination Cable			
NKDS01 PVC Station Cable	Connects NKTD01/11 cable to a single station.	NKTD01/11 cable to P1 of a station.	122.0 m (400.0 ft)
NKDS11 non-PVC Station Cable			
NKDS02 PVC Station Cable	Connects NKTD01/11 to multiple stations.	NKTD01/11 cable to P1 of multiple stations.	Station Configuration Dependent
NKDS12 non-PVC Station Cable			
NKDS03 PVC Station Cable	Connects NKDS02/12 cable to a station	NKDS02/12 cable to P1 of a station.	3.0 m (10.0 ft)
NKDS13 non-PVC Station Cable			
6634408A2 Ribbon Cable	Connects the IDS module to the NICS01 module.	J1 of the IDS module to J1 of the NICS01 module.	N/A
Standard 14 to 22 AWG Wire	Connects field and power (18 AWG) wiring to the IDS module.	Field or power source to the IDS terminal strip.	N/A

Cable Installation

Remove (pull off) the front cover of the termination module before trying to install cables. Use the following procedures when installing cables.

CAUTION

Remove modules (slave, master or termination) from their assigned slots before installing a cable to that slot. Also, remove stations from their housing before installing a cable to that housing. Failure to do so could result in damage to the module or station.

ATTENTION

Retirer les modules (asservi, maître ou carte de raccordement) de leur position assignée avant d'installer un câble à cette position. Egalement, retirer les postes de commande de leur boîtier avant d'installer un câble dans ce boîtier. Des dommages au module ou au poste pourraient résulter d'un manquement à cette procédure.

NKTD01/11 CABLE

This cable connects the IDS module to the NKDS01, NKDS11, NKDS02 or NKDS12 cable. To install the cable:

1. If round type cables are already installed in the termination mounting unit, remove the cable retaining bracket.

SETUP/PHYSICAL INSTALLATION



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