

NRK16/A, NRK16-B/A, NRK16-B1/A (NRK16-T../A, NRK14-T../A)

Control and interlock devices

Application controllers with pre-programmed system-specific application modules.

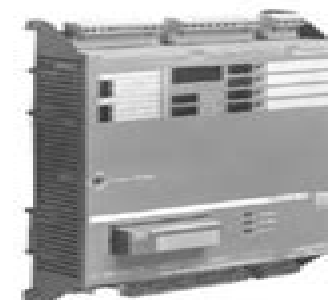
The controllers may be used

- as stand-alone control and interlock devices
- for remote process control within a management system

Especially suitable for use in small heating, ventilation and air conditioning systems.



NRK16/A (with NSA)



NRK16-B (with NSA)
NRK16-B1/A

Types

NRK16/A	Application controller with ten universal inputs ¹⁾ and two analogue, two digital and two combined outputs
NRK16-B/A	Like NRK16/A, but with panel for simple local operation
NRK16-B1/A	Like NRK16-B/A, but with temperature display in °F
NSA	Application modules, varying according to country or region, for plugging into base units
NRK16-T../A	NRK16/A + NITEL integrated communications module for a maximum of three additional devices (see manual NT21)
NRK14-T../A	Like NRK16-T../A, but without analogue outputs (see manual NT21)

Electrical protection

The power supply is overload-protected with a PTC thermal element.

All DC voltages are electrically isolated from the AC 24 V input.

All the inputs are protected against over-voltage (max. AC/DC 45 V). Low-pass filters prevent fluctuations in measurement. All outputs are sustained short-circuit proof.

High frequency interference is suppressed by means of filters, or in the case of capacitive interference, discharged via the (earthed) housing or the TE terminal (functional earth).

Important:

For direction connection of AC 24 V 3-wire peripheral devices, "GND" and "NS" (L) must be connected.

Technical data

Supply voltage	Extra low voltage (SELV-E)
Nominal voltage	AC 24 V, 50/60 Hz
- Max. tolerance	+15 / -10 %
Power consumption	
- Without output peripherals	3 VA
- With output peripherals	Max. 12 VA
Fuse	Thermal element (PTC)
Supply voltage for peripheral devices and remote operator terminal	
Output voltage	DC 15 V ± 10%, electrically isolated from AC 24 V
Output current	Max. 150 mA
Signal inputs ²⁾	
Universal inputs ³⁾	
- Number	10 ³⁾
- Use	Can be structured as T1, DC 0 ... 10 V, digital volt-free, or for connection of NMID R1 (pull-up resistor) = 10 kΩ to DC +15 V or
- Input impedance	100 kΩ to GND (change-over, see p. 5)
Remote control input	
- Use	Can be structured as T1, DC 0 ... 10 V, min. 1.5 sink, digital volt-free contacts, or for NMID R1 (pull-up resistor) = 10 kΩ to DC +15 V
- Input impedance	

Technical data continued on page 2x

¹⁾ The NMID multiplexer enables four digital inputs to be connected to a universal output. (See K21-06.53). Up to eight multiplexers may be connected to the NRUE/A and 16 to the NRUF/A.

²⁾ When connecting peripheral devices with special input or output signals (e.g. Pt100, phase cut or 3-position signals), the NT10 (NT10S) single module carrier or an NATU adapter can be used. (See K21-06.50 and K21-06.52).

³⁾ The T1 supply voltage can be disabled at the inputs (see page 5)

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ASE Test Prep and Study Guide James D. Halderman,2019-01-25 This text is designed to be a supplement to all courses in Automotive Technology This text is part of the Pearson Automotive Series Preparing today s automotive students for career success Market leading ASE Test Prep and Study Guide has been fully updated and expanded to address the latest technology and automotive systems Written to current ASE tasks and standards the guide covers ASE areas A1 A9 G1 and L1 with hundreds of test questions that use similar wording to the actual ASE certification tests The new third edition includes a list of the task that ASE states will be covered in the certification tests as well as the time allocated for each test The study guide also includes a complete explanation for why the right answer is correct as well as why the wrong answers are not correct The 3rd edition reflects changes to the ASE certification tests since the last revision It includes many new questions some with electrical schematics as well as new test prep features

Modern Automotive Technology Shop Manual Chris Johanson, 2025-03-26 The Modern Automotive Technology Shop Manual contains thorough coverage of the tasks listed in the ASE Education Foundation Task List. Each job in this manual is a hands-on activity that corresponds to one or more of the ASE Education Foundation tasks. The jobs have been carefully organized and developed to increase the student's chances of passing the related ASE tests by having the student apply what has been learned in the classroom. The jobs are not correlated to specific textbook chapters but will be assigned when the instructor determines that the student has sufficient knowledge to complete them. This manual steps the student through all essential ASE Education Foundation tasks including inspecting, testing, and diagnosing vehicle systems; removing and replacing self-contained components; and removing, overhauling, and reinstalling major components. This manual is divided into eight areas corresponding to the ASE certification areas and the eight areas of the ASE Education Foundation Task List. Each area of the manual is further subdivided into a number of projects or collections of closely related jobs. The eight areas of the manual, the projects, and the jobs they contain are color-coded to make it easy to locate specific content in the manual. The projects in this manual include a brief introduction about the type of service being performed, a list of the jobs included in the project, and a tools and materials list for the jobs. The jobs in this manual are designed to be accomplished in one or two lab sessions. Check boxes are provided in the left-hand column of the job so the student can mark off tasks as they are performed. Blanks are provided for recording service-related information. If properly implemented, this manual will help the student to do well in his or her courses, pass the ASE certification tests, and find a job in the automotive industry. *ASE Study Guide* Fast Prep Learning, 2025-11-04 Master the knowledge and skills needed to pass your ASE exams with confidence. This guide covers all major ASE areas including engine repair, brakes, suspension, electrical systems, and diagnostics—your ultimate resource for certification success. **ASE Test Preparation - A9 Light Vehicle Diesel Engines** Delmar, Delmar Publishers, 2011-05-31 Automotive technician certification cover. Automotive Maintenance and Light Repair Delmar Cengage Learning, 2014 The first edition of Delmar's Automotive Service Excellence ASE Test Preparation Manual for the G1 Auto Maintenance and Light Repair certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon but also provides descriptions of the various types of questions on a typical ASE exam as well as presents valuable test-taking strategies enabling you to be fully prepared and confident on test day. Back cover.

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