



PROGRAMMING TOOL
INSTALLATION AND OPERATION MANUAL

Product Safety

To prevent severe injury and loss of life or property, read the instruction carefully before using the handheld programmer ensure proper and safe operation of the system.



European Union directive

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.

For more information please visit the website at www.recyclethis.info

Disclaimer

The information in this manual is furnished for informational use only and subject to the change without notice. While every effort has been made to ensure that the information contained in this user manual is accurate, reliable and up to date. The Norden communication cannot be held responsible for inaccuracies or error that may appear in this manual.

Document Improvement

General Precautions

Do not use the NFA-T01PT Programming tool in any way or for any purpose not described in this manual.

Do not put any foreign objects into jack socket or battery compartment.

Do not clean the programming tool with alcohol or any organic solvent.

Do not place the programming tool in direct sunlight or rain, near heater or hot appliances, any location exposed to extremely high or low temperatures, high humidity, or dusty locations.

Do not expose the batteries to heat or flame. Keep the batteries out of reach of children, they are choking hazards and very dangerous if swallowed.

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1 Introduction

1.1 Overview

The NFA-T01PT is the general purpose programming tool use for NFA-T04FP Series family products. This unit is designed to suit for entering device parameters such as address, sensitivity, mode and types to meet the site situation and environmental requirements. In addition, the programming tool is capable to read the previous encoded parameters to use for testing application and troubleshooting purposes.

The NFA-T01PT is miniature and robust design makes it convenient to bring in the work place. The programming tool is packed with twin 1.5V AA battery and cable, ready for usage once received. Easy to understand the display and with functional keys allow easy single-button activation of the common used parameters.

1.2 Feature and Benefits

- Write, read and erase device parameters
- Pluggable cable with end alligator clip to hold tight the terminals
- LCD display and functional keys
- Low current consumption for longer battery lifespan
- Circuit protection against clip
- Auto power-off within 3 minutes

1.3 Technical Specification

- | | |
|-----------------------|--|
| • Battery Required | 2X1.5 AA / Included |
| • USB Links | MICRO-USB Link for power supply |
| • Current Consumption | Standby 0μA, In-use: 20mA |
| • Protocol | Norden |
| • Material / Colour | ABS / Grey Glossy finishing |
| • Dimension / LWH | 135 mm x 60 mm x30 mm |
| • Humidity | 0 to 95% Relative Humidity, Non condensing |

1.4 Names and Location

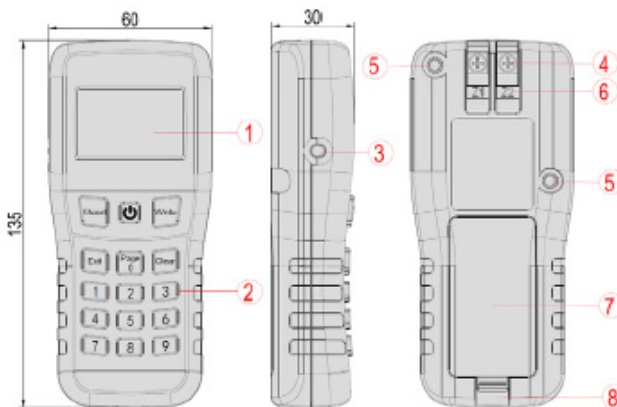


Figure 1

- | | | |
|---|----------------------------|--|
| ① | Data Display | 16 Characters, four-segment display shows the device address, set types and mode and ID value |
| ② | Function Key | Allow easy single-button activation of the common used parameters such as exit , clear , page , read and write function
0 to 9 keys used to enter numeric values |
| ③ | Jack Socket | Location for male connector of programming cable |
| ④ | Cross Screw | Fixed metal contact sheet |
| ⑤ | Fixed Detector | Install the detector base with this |
| ⑥ | Metal Contact sheet | Connection to signaling loop used for testing the loop wiring |
| ⑦ | Battery cover | Location for programmer batteries |
| ⑧ | MICRO-USB Link | Connect MICRO-USB to Power Programming tool for power supply |

2 Operation

This programming tool must be operated and maintained by a qualified or factory trained service personnel. Check the package contains before using your programmer.

Package contains the following:

1. NFA-T01 PT Programming Tool
2. Twin 1.5 AA Battery or Micro-USB Links
3. Programming cable
4. Strap belt
5. User Guide

2.1 Installing of Batteries

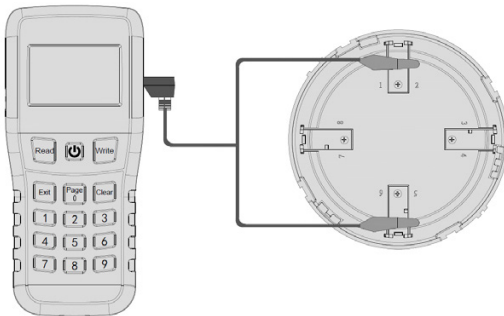
This programming tool has been designed to allow changing the battery quickly and easily.

1. Remove the battery compartment cover and insert the two AA batteries.
2. Make sure the positive and negatives ends are facing the correct directions.
3. Close the battery cover and press down until it clicks into place.

Warning: Dispose the used batteries according to the local regulation.

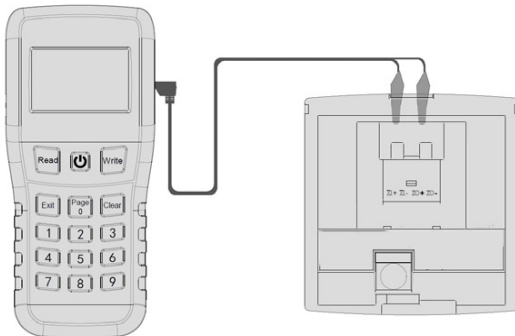
2.2 Connecting to the Device.

The programming cable has male connector and two alligator clips at both end. This clip is used to firmly hold the connection between the device terminal and programming tool. During the programming process if the cable is loss contact with the device, it will display Fail on the programming tool. It is recommended to be properly clipped the terminals before doing any programming. The programmer is not sensitive to the polarity; any of those clips can connect onto the signaling terminals of each device. Each type of device has different signaling terminal as follows:



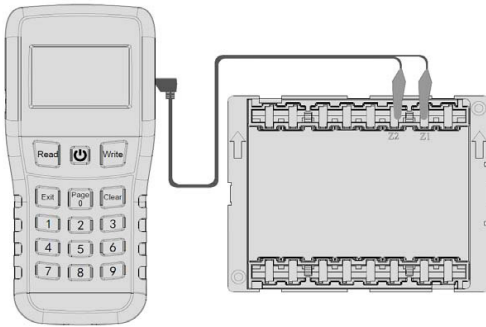
Signaling Terminal:
Detector and Sounders
Connect the alligator clip to terminal 1 (2) and 6 (5)

Figure 2



Signaling Terminal:
Manual Call Point
Connect the alligator clip to terminal Z1 and Z2 (Marks)

Figure 3



Signaling Terminal:
Interface Modules
 Connect the alligator clip to terminal Z1 and Z2 (Marks)

Figure 4

3 Programming

Note: The Norden device are equipped with variety of features and options that user can select or program onsite according to the project requirement and application. This manual cannot contain all the information's for each device. We recommend referring to the specific device operation manual for more details.

3.1 Protocol switching

Press and hold the 7 and 9 keys at the same time, it will enter the protocol switching interface, you can switch the T3E, T7, Phone Sys protocol, (Figure 6), Follow the prompts to select the protocol, Click to "Write" to switch the protocol, the three protocol interfaces are as shown in the figure (Figure 6-8).



Figure 5

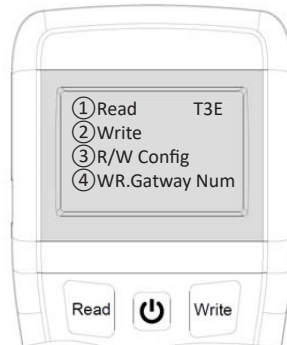


Figure 6



Figure 7

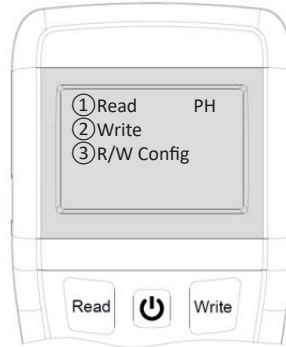


Figure 8

3.2 To Read

Selecting this feature allow user to view the device details and configurations. For example in NFA-T01HD Intelligent addressable heat detector.

1. Switch-on the programming tool, then press button “Read” or “1” to enter to **Read** mode (Figure 9). The programming tool will display the configuration after few seconds. (Figure 10)
2. Press “Exit” key to go back Main Menu. Press “Power” key to switch off the programmer.

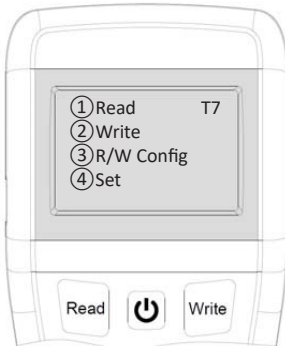


Figure 9



Figure 10

Read Description

Address: Unique number assigned
Category: Detector type
ID: Detector serial number

3.3 To Write

Selecting this feature allow user to write the new address number the device. For example in NFA-T01SD Intelligent Addressable Optical Smoke detector.

1. Connect the programming cable to terminals (Figure 2). Press “Power” to switch on the unit.
2. Switch-on the programmer, then press button “Write” or number “2” to enter Write Address mode (Figure 11).
3. Input the desire device address value from 1 to 254, and then press “Write” to save the new address (Figure12).

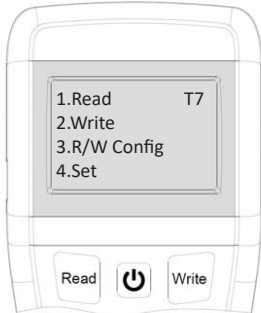


Figure 11



Figure 12



3.4 To R/W Config

Selecting this feature allow user to configure optional functions of a device such as distance, sounder type and others. For example in NFA-T01CM Addressable Input Output Control Module

1. Connect the programming cable to Z1 and Z2 terminals. Press “Power” to switch-on the unit.
2. Switch-on the programming tool, then press button “3” to enter to Configuration mode (Figure 13).
3. Input the “1” for Self-feedback mode or “2” for External-feedback mode then press “Write” to change the setting (Figure 14).

Note: If display “Success”, means the entered mode is confirmed. If display “Fail”, means failure to program the mode.

4. Press “Exit” key to go back Main Menu. Press “Power” to switch off the programming tool.

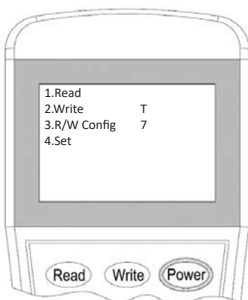


Figure 13

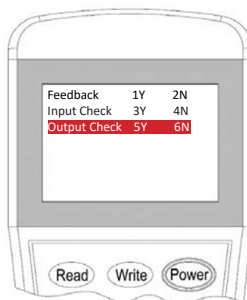


Figure 14

3.5 Set

Selecting this feature allow user to set other features such as tones selection or On and OFF the detector pulling LED as example of NFA-T01SD Intelligent Addressable optical smoke detector.

1. Switch-on the programming tool, then press button “4” to enter to **Setting** mode (Figure 15).
2. Input the “1” then press “Write” to change the setting (Figure 16) and LED will turn-off. To resume the default setting, press “Clear” and then press “Write”.
3. Press “Exit” key to go back Main Menu. Press “Power” to switch off the programmer.



Figure 15



Figure 16

4 Troubleshooting Guide

What you notice	What it means	What to do
No display on the screen	Low Battery Loose connection with the battery	Replace the batteries Check the internal wiring
Unable to encode data	Loss connection Wrong connection Damage the electronic circuit of the device	Check the connection with the detector Select the appropriate signaling terminal of the device Check the continuity of the programming cable Try to other device

5 Returns and Warranty Policy

Warranty Policy

Norden Communication products are warranted to be free from defects in materials and workmanship for one [1] form the date of purchase from an authorized distributor or agent or two [2] years from the date of manufactured. Within this period, we will at our sole discretion, repair or replace any components that fail in normal use. Such repairs or replacement will be made at free of charge for parts and/or labour provided that you shall be responsible for any transportation charges. Replacement product may be new or refurbished at our discretion.

This warranty does not apply to consumable parts; damage cause by accident, abuse, misuse, flood, fire or other act of nature or external causes; damage caused by service performance by anyone who is not authorize agent or trained personnel; damage to a product that has been modified or altered without the prior written permission of Norden Communication.

Return

Please contact our Customer Service prior to returning any product to receive a return authorization form and RMA number. You will be responsible for, and pre-pay, all return shipping charges and shall assume all risk of loss or damage to product while in transit to us. We recommend that you use a traceable method of shipping for your protection. We will pay for shipping to return any product to you.

Once you have obtained the RMA number, please send to us the purchased Norden product with the RMA number clearly marked on the outside of the package and on the shipping slip if you choose to use traceable carrier. Return shipping instruction and returns address will be included in your RMA documents.



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