

Overview

The AES 7704 DMS product is for “Commercial Protected Premise Control Unit”. This unit is UL864 and NFPA 72 compliant. There are 6 IDC zones and 1 NAC output. NAC output has maximum output of 0.5 Amps at 24 V DC. NAC standby current is 5 mA. IDCs & NAC circuit are class B.

- **Output is supervised and regulated and** special application.
 - The regulated NAC shall be rated 1/10th the special application NAC.
- **Circuit is power limited.**
- **Normal standby supervisory current is 2 mA.**

NAC Load (Amps)	Max. allowable total loop resistance (ohms)	CLASS-B Max. allowable wire pair length (feet)			
		AWG 12 solid	AWG 14 solid	AWG 16 solid	AWG 18 solid
0.25	14.40	4450	2797	1756	1105
0.5	7.20	2225	1399	878	553

IDC zones = 32 mA per input maximum

Out of box

- **Enclosure with key lock and two keys**
- **7707 Main Circuit Board**
- **7085UE5 2-Watt Transceiver set to authorized frequency**
- **7214 Case Top Flexible Tamper Resistant Antenna with cable assembly**
- **7704-NAC Circuit Board**
- **40-7704-QSG Model 7704 Quick Start Guide**
- **02-0054 4.7 kilohm EOL resistors (quantity is seven)**

Pre-Installation

Detailed installation information can be found in the Install and Operation Manual, AES P/N 40-7704 Rev

Important! A fire alarm installation that complies with UL 864 using the 7704 must be located where a NetCon of 5 is present. It is important to verify that a location is suitable before deciding on the antenna used and mounting the DMS. A check of the location can be done with the AES Network Connectivity Tool (NCT)

Exposing the Subscriber to temperatures below 32°F (0°C) or above 122°F (49°C) can damage the backup sealed lead acid battery. Exposure to extreme temperatures can cause unexpected operation of the Subscriber electronics. Exposing the Subscriber electronics to water or moisture environments (rain, shower, bath, pool, sauna, etc.) can cause damage and unexpected operation.

Compatible Receivers must be updated to following:

INCC – 10.00.04.1383 or newer

MNR – 2.0.8.7532 or newer

NMS – 9.0.5.4739 or newer

Supported NACs - Please see AES website to review 40-7704 Manual Appendix A

Supported Smoke/Heat Detectors - Please see AES website to review 40-7704 Manual Appendix B

Configuration of NACs and Smoke Detectors needs to be verified with the AES battery calculator found on the AES website (www.aes-corp.com). UL 864 battery requirements for the installed configuration must be maintained.

Configuring DMS & Programming

1. Connect via ethernet or wi-fi connection
 - a. If Wi-Fi dongle is active, please locate AES2.0-XXX and use password “7704-DMS”
2. Set ID and Cipher Code
3. Configure IDC & NAC or use default values below:

IDC Default Configuration		USE NAC	LATCHING
INPUT ZONE	Default Function		
Input 1	Water Flow	Y	Y
Input 2	Smoke Detector	Y	Y
Input 3	Manual Pull	Y	Y
Input 4	Supervisory	N	Y
Input 5	Supervisory	N	Y
Input 6	Valve Tamper	Y	Y

AES DMS 7704 Quick Start Guide

Technical Specifications

Power Supply

DMS uses 16.5 V AC, 50VA Plug in Transformer. Model MGT1650
Backup battery: Sealed lead-acid 12V DC nominal 14Ah capacity

Environmental Specifications

Operating Temperature: 32°F to 120°F (0°C to 49° C)
Storage Temperature: 14F° to 140°F (-10° to 60° C)
Relative Humidity: 0 to 93% RHC, Non-Condensing

Mechanical Specifications

Size: approximate - 13 x 10 x 4.5 inches (33 x 25.4 x 11.4 cm)
Weight (shipping w/o battery) 8.1 lbs (3.7 kg)
Weight (installation w/battery) 16.3 lbs (7.4 kg)

LIMITED PRODUCT WARRANTY

AES warrants to the original purchaser that the AES Subscriber Unit will be free from defects in material and workmanship under normal use and service for three (3) years from the date of original purchaser's purchase. Except as required by law, this Limited Warranty is made only to the original purchaser and may not be transferred to any third party.

This Limited Product Warranty is made in lieu of any other warranties, expressed or implied, it being understood that all other warranties, expressed or implied, inclusive of merchantability or fitness for a particular purpose, are hereby expressly excluded. AES assumes no liability for any personal injury, property damage, consequential damages, or any other loss or damage due, among other things, to this product's failure to operate or provide adequate warning. AES's sole responsibility is to repair or replace, at AES's sole option, the AES product that is judged defected by AES during the limited warranty period under the terms of its Limited Warranty.

AES SERVICE PROCEDURE:

Contact AES by Phone (978) 535-7310, Fax (978) 535-7313 or Email service@aes-corp.com, to receive a Return Material Authorization Number. Have the AES part number and serial number ready. Repack equipment in original or equivalent packaging. Inside the box, please include a contact name, telephone number, address and a brief description of the reason for return.

Ship items freight-prepaid to:
Repair Services, RMA# _____
AES Corporation,
285 Newbury Street
Peabody, MA 01960 USA
(Contact AES for Return Material Authorization number.)