

IPDACT Internet Communicator UL Listing Explanations

Document FLMU08-02-1

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This marketing update explains the UL-864 listing of the IPDACT Internet Fire Alarm Communicator and how it meets the requirements found in NFPA 72 to meet Internet Fire alarm communications. This listing permits the IPDACT to operate on a single communications line to a central station equipped with UL-864 listed VISORALARM-PLUS IP receivers without requirement for a backup/redundant communications line.

For proof of UL listing, AHJs and other interested parties can review the listing cards found on the UL web site at the following link:
<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>.
Enter just the company name as FIRE-LITE ALARMS. Under link to file, select UOJZ.S624. Look in the column labeled Type of Signaling next to the panel model to find the designation "OT".

These cards have been updated with a new signaling description called OT (Other Transmission Technologies) PSDN (Packet Switched Data Network) for each of the following UL listed Fire-Lite panels: MS-9600, MS-9600UDLS, MS-9050UD, MS-9200UD, MS-9200UDLS, MS-5UD/MS-10UD, Unimode 9600, Unimode 9600LS, Unimode 9050UD, Unimode 200 Plus, Unimode 200UDLS, Unimode 5UD/10UD, 411-UD, 411-UDAC, control units and Model HP300ULX power supply. The IPDACT is UL-864 listed for type signaling, "Other Transmission Technologies", PSDN (Packet Switched Data Network) for both proprietary and commercial central stations as shown in the following table.

<u>Type Service</u>	<u>Model</u>	<u>Type Signaling</u>
Proprietary (PPU)	IPDACT	OT
Central Station (PPU)	IPDACT	OT

In addition, the IPDACT can be used with the 411UD slave series dialer to monitor the Alarm, Trouble and Supervisory relays of any manufacturer's fire alarm panel.

The dialer dry contact inputs connect to the relays of the competitive panel. The Telco outputs of the dialer are connected to the IPDACT and the IPDACT connect via Ethernet jack to the Internet. (See Fire-Lite Marketing Update FLMU08-02-2 for more information.)

The IPDACT meets all requirements for a single communication line (no redundant communications required) under the 2002 edition of NFPA 72, section 8.5.4 and section 8.6.4 under the 2007 edition. The following part of section 8.5.4 (from the 2002 edition) refers to communication Integrity. Each section describes how the IPDACT meets or exceeds the requirement. Note that although the numbered subsections have been incremented in the 2007 edition, the content has not changed.

8.5.4.4 Communications Integrity

8.5.4.4.1 Any failure shall be annunciated at the supervising station within 5 minutes of the failure. (The IPDACT will do this within 10 seconds or less)

8.5.4.4.2 If communications cannot be established with the supervising station, an indication of this failure to communicate shall be annunciated at the protected premises. (The panel will go into "Trouble" in less than a minute indicating loss of IP connectivity)

8.5.4.4.3 If a portion of the communications path cannot be monitored for integrity, a redundant communications path shall be provided. (The communications path is supervised every 90 seconds for integrity therefore there is no need for a redundant communications path.)

8.5.4.4.4 Provision shall be made to monitor the integrity of the redundant communications path. (There is no need for a redundant communications path per the line above.)

8.5.4.4.5 Failure of both the primary and redundant communications paths shall be annunciated at the supervising station within not more than 24 hours of the failure. (Failure of the communications path is annunciated at the supervising station within 90 seconds.)

8.5.4.4.6 System units at the supervising station shall be restored to service within 30 minutes of a failure. (A hot backup receiver is specified for the Central Station but any receiver can be restored via smartcard within 30 seconds.)

8.5.4.4.7 The transmission technology shall be designed so that upon failure of a transmission channel serving a system unit at the supervising station, the loss of the ability to monitor shall not affect more than 3000

transmitters. (The Central Station receiver will only monitor up to 3,000 units.)

Additionally, the IPDACT complies with all other sub-sections of section 8 in NFPA 72.

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