◆ Simplex

IDNet and MAPNET II Addressable Devices
Device Communications Compatibility Chart

Devices Compatible with 4008, 4010, 4010ES, 4100ES, & 4100U IDNet Communications, & MAPNET II Communications

Model	Description	Model	Description	Listings
4090-9101	Class B IDC ZAM	4098-9789	Sensor Base w/LED/relay output	UL, ULC, FM, CSFM, MEA
4090-9106	Class A IDC ZAM	4098-9791	4-Wire Sensor Base w/supv. relay	
4098-9750	In-Duct Sensor Housing without relay	4098-9792	Standard Sensor Base	
4098-9751	In-Duct Sensor Housing with relay	4098-9794	Sounder Base	
4098-9755	Duct Sensor Housing without relay	4099-9001	Addressable Station, Standard	
4098-9756	Duct Sensor Housing with relay	4099-9002	Addressable Station, Breakglass	
4098-9780	2-Wire Sensor Base w/supv. relay	4099-9003	Addressable Station, Push	
4098-XAD-100, -110, -200, -210	Air aspiration sensor housings; -100, & -110 are single inlet; -200, & -210 are dual inlet	4099-9020	NO-GRIP Single Action Addressable Station	UL, ULC, CSFM

Devices with Special Considerations

Model	Description	Compatibility	Listings
4090-9001 4090-9051	Supervised IAMs; 4090-9051 is encapsulated and w/o LED	**4008, 4010, 4010ES, 4100ES, & 4100U IDNet** provide "T" sense	UL, ULC, FM, CSFM, MEA (see exceptions in descriptions)
		MAPNET II provides Class B monitoring of N.O. contacts	
4009-9401	TrueAlert Addressable Controller	**4100ES, 4010ES, 4100U, & 4100 use RUI; 4010 use IDNet**	
4098-9795	<u>Two</u> Address Sounder Base for sensor 4098-9754	**4008, 4010, 4100ES, 4010ES, and 4100U IDNet, and MAPNET II**; two consecutive addresses; does not provide TrueSense operation; see below for single address 4010ES/4100U/4100ES applications of 4098-9754	
4098-9796	<u>Two</u> Address Standard Base		
4098-9754	Photo/Heat Multi-Sensor for above bases		
4098-9754*	Photo/Heat Multi-Sensor, **one address** for photo, heat, and **TrueSense operation (4100ES, 4010ES, & 4100U only)**	**For 4100ES, 4010ES, & 4100U IDNet only**; uses only one address; use with sensor bases: 4098-9770, 4098-9771, 4098-9780, 4098-9789, 4098-9791, 4098-9792, 4098-9793, 4098-9794, 4098-9797, & 4098-9798	
4099-9012	Addressable **Releasing Station**, Push	**Use with IDNet or MAPNET II Releasing panels only**	
4090-9116**	IDNet Communications Isolator	**4100ES, 4010ES, 4100U and 4008 IDNet**	
4090-9007†	IDNet Signal IAM	**4100ES, 4010ES, 4100U IDNet** (4100U requires software revision 11.11.01 or higher) **or with 4008 IDNet;** requires **one address** but consumes **two unit loads†**	
4190-9050†	4-20 mA AMZ, **revision 2.01 firmware**	**4100ES, 4010ES, 4100U IDNet; or 4100U & 4100ES MAPNET II Operation** (MAPNET II requires one unit load, **IDNet requires two unit loads†**)	UL, ULC, **(MEA Not Applicable)**
4190-9051†			
4090-9008	Dual Contact Relay IAM	**4100ES, 4010ES, 4100U, or MAPNET II Operation**	UL, ULC, CSFM, FM
VLC-600	TrueAlarm LaserCOMPACT	**4010ES, 4100U, 4100ES IDNet or MAPNET II Operation**	UL, ULC, CSFM

Devices Compatible with 4010/4010ES/4100U/4100ES IDNet Communications Only (except as noted)

Model	Description	Model	Description	Listings
4009-9201	4009 IDNet NAC Extender (4009 A); 4100U requires rev. 11 software or higher	4090-9002	Relay IAM **(also for use with 4008)**	UL, ULC, FM, CSFM, MEA (see exceptions in descriptions)
4009-9301		4098-9793**	Isolator Base	
4090-9105	Class B IDNet Fiber Optic Transmitter (not MEA approved)	4090-9005††	Suppression Release Peripheral (SRP) without enclosure (uses 2975-9227) [ULC is not applicable]	
4090-9107	Class A			
4009-9809	IDNet Repeater (not MEA approved)	4090-9006††	SRP with Enclosure	
4907-9001	LED Message Board (UL & C-UL)			

Devices Compatible with 4010ES/4100U/4100ES IDNet Communications Only

Model	Description	Model	Description	Listings
4090-9117	Addressable Power Isolator	4090-9120*	6-Pt. Module, 4 T-Sense inputs, 2 relays	UL, ULC, FM, CSFM, MEA
4090-9118*	Relay IAM with T-Sense Input	4090-9121	Security Monitor IAM, two unit loads	
4090-9119*	Relay IAM with unsupervised input	4100-1274	Microphone Multiplex Module (internal IAM)	
4098-9770 & 4098-9797	CO Sensor Standard Base	4098-9771 & 4098-9798	CO Sensor Sounder Base	UL

Devices Compatible with MAPNET II Communications Only (refer to pages 2 and 6 for legacy products)

Model	Description	Model	Description	Listings
2190-9153 & -9154	Monitor ZAM, Style D, IDC	2190-9161 & -9162	Signal ZAM, Style Y NAC	UL, ULC, FM, CSFM, MEA
2190-9155 & -9156	Monitor ZAM, Style B, IDC	2190-9163 & -9164	Control Relay ZAM, DPDT Contacts	
2190-9157 & -9158	4-Wire Detector ZAM, IDC	2190-9169 & -9170	Line powered isolators (non-addr.)	
2190-9159 & -9160	Signal ZAM, Style Z NAC	2190-9173	2-Point I/O Module	

Devices Compatible with 4010 or 4010ES IDNet Communications or 4100ES/4100U with 4100-3106 IDNet Expansion Module

Model	Description	Listings
4098-9757	QuickConnect2 Sensor (uses 4098-9788 multi-purpose base)	UL, ULC, FM, CSFM, MEA

* Requires 4010ES/4100ES (or 4100U with Revision 11.0 software or higher). ****** For 4100ES & 4100U, IDNet Isolators are not compatible with the 4100-3103 Quad Panel Mount Isolator; if Quad isolator is required use 4100-3107 IDNet+ Module. **[†]** For IDNet communications, 1 address is assigned but the available SLC address count is reduced by 2 due to supervisory current requirements.] **[††]** Requires 4010 Revision 3.01 software or higher; or 4100U Revision 11.05 software or higher, or 4010ES/4100ES.] **[LISTINGS NOTE:** Listings shown are for reference; refer to individual product data sheets for detailed information.]

Device Communications Compatibility with Devices in Numerical Order (without listings)
(This includes legacy devices not listed on page 1; refer to page 1 and product data sheets for additional information)

Model	Description	4100ES, 4010ES, & 4100U IDNet	4010 IDNet	4008 IDNet	MAPNET II
2099-9135	Addressable Station, double action push, no Simplex logo	—	—	—	✔
2099-9761	Addressable Station, double action push	—	—	—	✔
2099-9795	Addressable Station, single action	—	—	—	✔
2099-9796	Addressable Station, double action breakglass	—	—	—	✔
2099-9797	Addressable Station, single action, LOCAL	—	—	—	✔
2190-9153	Monitor ZAM, Class A, IDC; surface mount	—	—	—	✔
2190-9154	Monitor ZAM, Class A, IDC; flush mount	—	—	—	✔
2190-9155	Monitor ZAM, Class B, IDC; surface mount	—	—	—	✔
2190-9156	Monitor ZAM, Class B, IDC; flush mount	—	—	—	✔
2190-9157	4-Wire Detector ZAM, Class B IDC; surface mount	—	—	—	✔
2190-9158	4-Wire Detector ZAM, Class B IDC; flush mount	—	—	—	✔
2190-9159	Signal ZAM, Class A NAC; surface mount	—	—	—	✔
2190-9160	Signal ZAM, Class A NAC; flush mount	—	—	—	✔
2190-9161	Signal ZAM, Class B NAC; surface mount	—	—	—	✔
2190-9162	Signal ZAM, Class B NAC; flush mount	—	—	—	✔
2190-9163	Control Relay ZAM, DPDT Contacts; surface mount	—	—	—	✔
2190-9164	Control Relay ZAM, DPDT Contacts; flush mount	—	—	—	✔
2190-9169	Line Powered Isolator, non-addressable; surface mount	—	—	—	✔
2190-9170	Line Powered Isolator, non-addressable; flush mount	—	—	—	✔
2190-9172	Individual Addressable Module (IAM), includes 2190-9172A (larger) package	—	—	—	✔
2190-9173	2-Point I/O Module	—	—	—	✔
4009-9201	4009 IDNet NAC Extender (4009A); 120 VAC input	✔ (4100U requires Rev. 11 or higher)	✔	—	—
4009-9301	4009 IDNet NAC Extender (4009A); 240 VAC input		✔	—	—
4009-9401	TrueAlert Addressable Controller (4009T)	**(use RUI)**	✔	—	—
4009-9809	IDNet Repeater (mounts in 4009A or 4009T only)	✔	✔	—	—
4090-9001	Supervised IAM with LED	w/T-sense	w/T-sense	w/T-sense	**no** T-sense
4090-9002	Relay IAM	✔	✔	✔	—
4090-9005	Suppression Release Peripheral (SRP) no enclosure	✔ (4100U requires Rev. 11.05 or higher)	w/Rev. 3.01	—	—
4090-9006	SRP with Enclosure			—	—
4090-9007	IDNet Signal IAM; one address	✔ **2** unit loads (4100U requires Rev. 11.11.01 or higher)	—	**2** unit loads	—
4090-9008	Dual Contact Relay IAM	✔	—	—	✔
4090-9051	Supervised IAMs; encapsulated w/o LED	w/T-sense	w/T-sense	w/T-sense	**no** T-sense
4090-9101	Class B IDC ZAM	✔	✔	✔	✔
4090-9105	Class B IDNet Fiber Optic Transmitter	✔	✔	—	—
4090-9106	Class A IDC ZAM	✔	✔	✔	✔
4090-9107	Class A IDNet Fiber Optic Transmitter	✔	✔	—	—
4090-9116	IDNet Communications Isolator; **see note next page** *	✔	—	✔	—
4090-9117	Addressable Power Isolator	✔	—	—	—
4090-9118	Relay IAM with T-Sense Input	✔ (4100U Rev. 11 or higher)	—	—	—
4090-9119	Relay IAM with unsupervised input		—	—	—
4090-9120	6-Pt. Module, 4 T-Sense inputs, 2 relays		—	—	—
4090-9121	Security Monitor IAM, **2** unit loads	✔	—	—	—
4098-9702	Duct Sensor for 4098-9701 Sensor Head 4-wire	—	—	—	✔
4098-9703	Duct Sensor for -9701 Sensor Head 2-wire (2120 CDT)	—	—	—	✔
4098-9704	In-Duct Sensor for 4098-9701 Sensor Head 4-wire	—	—	—	✔
4098-9705	In-Duct Sensor for -9701 Head 2-wire (2120 CDT)	—	—	—	✔
4098-9706	Duct Sensor for 4098-9701 Head 4-wire w/4" base	—	—	—	✔
4098-9707	Duct Sensor for -9701 Head 2-wire w/4" base (2120 CDT)	—	—	—	✔
4098-9708	In-Duct Sensor for 4098-9701 Head 4-wire w/4" base	—	—	—	✔
4098-9709	In-Duct Sensor for -9701 Head 2-wire w/4" base (2120 CDT)	—	—	—	✔
4098-9750	In-Duct Sensor Housing without relay	✔	✔	✔	✔
4098-9751	In-Duct Sensor Housing with relay	✔	✔	✔	✔
4098-9752	Legacy Duct Housing for 4098-9714 without relay (2120 CDT)	✔	✔	✔	✔
4098-9753	Legacy Duct Housing for 4098-9714 with relay	✔	✔	✔	✔

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Device Communications Compatibility with Devices in Numerical Order (without listings); *Continued*
(This includes legacy MAPNET II devices not listed on page 1; refer to page 1 and product data sheets for additional information)

Model	Description	4100ES, 4010ES, & 4100U IDNet	4010 IDNet	4008 IDNet	MAPNET II
4098-9754	Photo/Heat TrueSense Multi-Sensor, **1** address, std. bases	✓ (4100U requires Rev. 11 or higher)	—	—	—
4098-9754	Photo/Heat Multi-Sensor used with dual address bases	✓	✓	✓	✓
4098-9755	Compact Duct Sensor Housing w/o relay for -9714 (2120 CDT)	✓	✓	✓	✓
4098-9756	Compact Duct Sensor Housing w/relay for 4098-9714	✓	✓	✓	✓
4098-XAD-100, -110, -200, -210	Air aspiration sensor housings; -100, & -110 are single inlet; -200, & -210 are dual inlet	✓	✓	✓	✓
4098-9757	QuickConnect2 Sensor (uses 4098-9788 base)	✓ 4010ES, and 4100ES/4100U with 4100-3106 module	✓	—	—
4098-9780	2-Wire Sensor Base w/supv. relay	✓	✓	✓	✓
4098-9781	Sensor Base 6-3/8"	—	—	—	✓
4098-9782	Sensor Base 6-3/8" w/sounder	—	—	—	✓
4098-9783	Sensor Base 6-3/8" w/remote relay driver	—	—	—	✓
4098-9784	Standard Sensor Base 4"	✓	✓	✓	✓
4098-9785	Sensor Base 4" w/conn. for remote alarm ind. or relay	✓	✓	✓	✓
4098-9786	Sounder Base 6-3/8" w/conn. for remote alarm ind. or relay	✓	✓	✓	✓
4098-9787	Sensor Base 4" w/supv. remote relay & remote ind. or relay	✓	✓	✓	✓
4098-9789	Sensor Base; remote LED or unsupervised relay	✓	✓	✓	✓
4098-9791	4-Wire Sensor Base; remote LED or relay; and supv. remote relay	✓	✓	✓	✓
4098-9792	Standard Sensor Base	✓	✓	✓	✓
4098-9793	Isolator Base; **see 4100U/4100ES note below***	✓	✓	✓	—
4098-9794	Sounder Base	✓	✓	✓	✓
4098-9795	Two Address Sounder Base for 4098-9754	✓	✓	✓	✓
4098-9796	Two Address Standard Base for 4098-9754	✓	✓	✓	✓
4098-9770 & 4098-9797	CO Sensor Standard Base	✓	—	—	—
4098-9771 & 4098-9798	CO Sensor Sounder Base	✓	—	—	—
4099-9001	Addressable Station, Standard	✓	✓	✓	✓
4099-9002	Addressable Station, Breakglass	✓	✓	✓	✓
4099-9003	Addressable Station, Push	✓	✓	✓	✓
4099-9012	Addressable Releasing Station, Push (for releasing panels)	✓	✓	—	✓
4099-9020	NO-GRIP Single Action Addressable Station	✓	✓	✓	✓
4100-1274	Microphone Multiplex Module (internal IAM)	✓	—	—	—
4190-9050	4-20 mA AMZ, revision 2.01 firmware; surface mount	**2** unit loads	—	—	**1** unit load
4190-9051	4-20 mA AMZ, revision 2.01 firmware; flush mount		—	—	
4907-9001	LED Message Board	✓	✓	—	—
VLC-600	TrueAlarm LaserCOMPACT; emulates 4-20 mA AMZ	✓	—	—	✓

*NOTE: IDNet Isolators are not compatible with the 4100-3103 Quad Panel Mount Isolator; if required, use 4100-3107 IDNet+ Module.

4010ES/4100U/4100ES Multi-Point Device Point Allocations
NOTE: Points and/or sub-points required to be mapped over the Network are designated as "Public" in the 4010ES, 4100U, 4100ES programmer.

4009 IDNet NAC Extender (4009A)

Model	Description	Point Type	4010ES/4100U/4100ES, I/O Point Usage[1]	Public Points Usage[2]
4009-9201	4009 IDNet NAC Extender, 120 VAC input	**4009A4**	**4:** 1 per NAC	**up to 5;** 1 per NAC, 1 for trouble
4009-9301	4009 IDNet NAC Extender, 240 VAC input			
4009-9807	Additional 4 circuit NAC, added to 4009-9201 or 4009-9301	**4009A8**	**8:** 1 per NAC	**up to 9;** 1 per NAC, 1 for trouble

Addressable I/O Devices

Model	Description	Point Type	4010ES/4100U/4100ES, I/O Point Usage[1]	Public Points Usage[2]
4090-9118	Relay IAM with T-Sense Input	**TRIAM**	**2;** 1 for relay, 1 for input	**up to 3;** 1 for relay, 1 for input, 1 for trouble
4090-9119	Relay IAM with feedback (unsupervised input)	**FRIAM**	**1;** 1 point per Relay IAM	**up to 3;** 1 for relay, 1 for input, 1 for trouble

1, 2, See page 5 for footnotes.

4010ES/4100U/4100ES Multi-Point Device Point Allocations *(Continued)*

Addressable I/O Devices *(Continued)*

Model	Description	Point Type	4010ES/4100U/4100ES I/O Point Usage[1]	Public Points Usage[2]
4090-9120	6-Pt. Module, 4 T-Sense inputs, 2 relays	MLPTIO	**6;** 1 per relay, 1 per input	**up to 7;** 1 per relay, 1 per input, 1 for trouble

TrueAlarm Sensor Bases with 4098-9754, Photo/Heat, TrueSense Multi-Sensor

Model	Description		Point Type	Panel I/O Point Usage[1] 4100ES & 4010ES	4100U	Public Points Usage[2]
4098-9792	Standard Sensor Base, no outputs		COMBO	1	**2;** 1 for smoke, 1 for heat	**up to 4;** 1 for smoke, 1 for heat, 1 for correlation, 1 for trouble
4098-9789	Sensor Base with remote LED or unsupervised relay; on with alarm					
4098-9780	2-Wire Sensor Base	Supports remote LED or relay; and supervised remote relay	RCOMBO	1	**2;** 1 for smoke, 1 for heat	**up to 5;** 1 for smoke, 1 for heat, 1 for correlation,1 for trouble 1 for relay
4098-9791	4-Wire Sensor Base					
4098-9793	Isolator Base		ICOMBO	1	**2;** 1 for smoke, 1 for heat	**up to 5;** 1 for smoke, 1 for heat, 1 for correlation,1 for trouble, 1 for isolator
4098-9794	Sounder Base		SCOMBO	1	**2;** 1 for smoke, 1 for heat	**up to 5;** 1 for smoke, 1 for heat, 1 for correlation,1 for trouble, 1 for sounder

TrueAlarm CO Sensor Standard Base 4098-9770 & 4098-9797 with Compatible Sensors

Sensor Model	Description	Point Type	Panel I/O Point Usage[1] 4100ES & 4010ES	4100U	Public Points Usage[2]
4098-9714	Photoelectric Smoke Sensor	MCOP	1	**2;** 1 for photo, 1 for CO	**up to 5;** 1 for trouble, 1 for photo (MPHOTO), 1 for CO gas (MCOGAS), 1 for CO fire (MACOFIRE), 1 to select multi-point correlation: false alarm reduction (MACOFALSE), or faster detection (MACOFAST), or correlation off (MAOFF)
4098-9754	Multi-Sensor, Photoelectric and Heat Sensing	MCOPH	1	**3;** 1 for photo, 1 for heat, 1 for CO	**up to 6;** 1 for trouble reporting, 1 for photo (MPHOTO), 1 for heat (MHEAT) 1 for CO gas (MCOGAS), 1 for CO fire (MACOFIRE), 1 to select multi-point correlation: false alarm reduction (MACOFALSE), or faster detection (MACOFAST), or correlation off (MAOFF)
4098-9733	Heat Sensor	MCOH	1	**2;** 1 for heat, 1 for CO	**up to 4;** 1 for trouble reporting, 1 for heat (MHEAT), 1 for CO gas (MCOGAS), 1 for CO fire (MACOFIRE),
4098-9717	Ionization Smoke Sensor	MCOI	1	**2;** 1 for ion, 1 for CO	**up to 4;** 1 for trouble reporting, 1 for ion (MION), 1 for CO gas (MCOGAS), 1 for CO fire (MACOFIRE)

1, 2, See page 5 for footnotes.

4010ES/4100U/4100ES Multi-Point Device Point Allocations; *Continued*

TrueAlarm CO Sensor Sounder Base 4098-9771 & 4098-9798 with Compatible Sensors; *Continued*

Sensor Model	Description	Point Type	Panel I/O Point Usage[1]		I/O Point Usage[2]
			4100ES & 4010ES	4100U	
4098-9714	Photoelectric Smoke Sensor	**MCOPS**	**1**	**2;** 1 for photo, 1 for CO	**up to 6;** 1 for trouble reporting, 1 for sounder (MSOUND) 1 for photo (MPHOTO), 1 for CO gas (MCOGAS), 1 for CO fire (MACOFIRE), 1 to select multi-point correlation: false alarm reduction (MACOFALSE), or faster detection (MACOFAST), or correlation off (MAOFF)
4098-9754	Multi-Sensor, Photoelectric and Heat Sensing	**MCOPHS**	**1**	**3;** 1 for photo, 1 for heat, 1 for CO	**up to 7;** 1 for trouble reporting, 1 for sounder (MSOUND), 1 for photo (MPHOTO), 1 for heat (MHEAT) 1 for CO gas (MCOGAS), 1 for CO fire (MACOFIRE), 1 to select multi-point correlation: false alarm reduction (MACOFALSE), or faster detection (MACOFAST), or correlation off (MAOFF)
4098-9733	Heat Sensor	**MCOHS**	**1**	**2;** 1 for heat, 1 for CO	**up to 5;** 1 for trouble reporting, 1 for sounder (MSOUND), 1 for heat (MHEAT), 1 for CO gas (MCOGAS), 1 for CO fire (MACOFIRE),
4098-9717	Ionization Smoke Sensor	**MCOIS**	**1**	**2;** 1 for ion, 1 for CO	**up to 5;** 1 for trouble reporting, 1 for sounder (MSOUND), 1 for ion (MION), 1 for CO gas (MCOGAS), 1 for CO fire (MACOFIRE)

Footnotes:

1. 4100ES I/O Point Usage = 2500 max; 4100U I/O Point Usage = 2000 max.; 4010ES I/O Point Usage = 1000 max. Note that I/O point and device capacity may be different. Consult your Simplex product supplier for application assistance.

2. 4100U/4100ES Public Points Usage = 2500 max. per 4100U/4100ES to other Nodes. 4010ES Public Points Usage; all 4010ES points may be made public to other nodes.

MAPNET II Device Panel Compatibility (✔ = compatible)

Model	Description	with 4100-3102 MAPNET II module	4100/4100+ /4120	4020	UT*	2120 CDT**
2099-9135	Addressable Station, double action push, no Simplex logo					
2099-9761	Addressable Station, double action push					
2099-9795	Addressable Station, single action					
2099-9796	Addressable Station, double action breakglass					
2099-9797	Addressable Station, single action, LOCAL					
2190-9153	Monitor ZAM, Class A, IDC; surface mount					
2190-9154	Monitor ZAM, Class A, IDC; flush mount					
2190-9155	Monitor ZAM, Class B, IDC; surface mount					
2190-9156	Monitor ZAM, Class B, IDC; flush mount					
2190-9157	4-Wire Detector ZAM, Class B IDC; surface mount	compatible				compatible
2190-9158	4-Wire Detector ZAM, Class B IDC; flush mount					
2190-9159	Signal ZAM, Class A NAC; surface mount					
2190-9160	Signal ZAM, Class A NAC; flush mount					
2190-9161	Signal ZAM, Class B NAC; surface mount					
2190-9162	Signal ZAM, Class B NAC; flush mount					
2190-9163	Control Relay ZAM, DPDT Contacts; surface mount					
2190-9164	Control Relay ZAM, DPDT Contacts; flush mount					
2190-9172	IAM, includes 2190-9172A					
2190-9173	2-Point I/O Module					
4090-9008	Dual Relay IAM					
4090-9001	Supervised IAM with LED, **without T-sense**	compatible				yes, but without latch/track selection
4090-9051	Supervised IAMs; encapsulated w/o LED, **without T-sense**					
4090-9101	Class B IDC ZAM					
4090-9106	Class A IDC ZAM					
4098-9702	Duct Sensor for 4098-9701 Sensor Head 4-wire					
4098-9703	Duct Sensor for 4098-9701 Sensor Head 2-wire					
4098-9704	In-Duct Sensor for 4098-9701 Sensor Head 4-wire	compatible				compatible
4098-9705	In-Duct Sensor for -9701 Head 2-wire					
4098-9706	Duct Sensor for 4098-9701 Head 4-wire w/4" base					
4098-9707	Duct Sensor for 4098-9701 Head 2-wire w/4" base					
4098-9708	In-Duct Sensor for 4098-9701 Head 4-wire w/4" base					
4098-9709	In-Duct Sensor for -9701 Head 2-wire w/4" base					
4098-9750	In-Duct Sensor Housing without relay	compatible				✔
4098-9751	In-Duct Sensor Housing with relay	compatible				—
4098-9754	Photo/Heat Multi-Sensor used with dual address bases	compatible				—
4098-9755	Duct Sensor Housing without relay	compatible				✔
4098-9756	Duct Sensor Housing with relay	compatible				—
4098-9780	2-Wire Sensor Base w/supv. relay	compatible				—
4098-9781	Sensor Base 6-3/8"					
4098-9782	Sensor Base 6-3/8" w/sounder					
4098-9783	Sensor Base 6-3/8" w/remote relay driver					
4098-9784	Standard Sensor Base 4"	compatible				compatible
4098-9785	Sensor Base 4" w/conn. for remote alarm ind. or relay					
4098-9786	Sounder Base 6-3/8" w/conn. for remote alarm ind. or relay					
4098-9787	Sensor Base 4" w/supv. remote relay & remote ind. or relay					
4098-9789	Sensor Base; remote LED or unsupervised relay	compatible				✔
4098-9791	4-Wire Sensor Base w/supv. relay	compatible				—
4098-9792	Standard Sensor Base	compatible				✔
4098-9794	Sounder Base	compatible				—
4098-9795	Two Address Sounder Base for 4098-9754	compatible				—
4098-9796	Two Address Standard Base for 4098-9754	compatible				—
4099-9001	Addressable Station, Standard					
4099-9002	Addressable Station, Breakglass	compatible				compatible
4099-9003	Addressable Station, Push					

Model	Description	With 4100-3102 MAPNET II module	4100/4100+ /4120	4020	UT*	2120 CDT**
4190-9050	4-20 mA AMZ, revision 2.01 firmware; surf. mount, 1 unit load	✔	revision 8 or higher	—	—	—
4190-9051	4-20 mA AMZ, revision 2.01 firmware; flush mount, 1 unit load	✔		—	—	—
VLC-600	TrueAlarm LaserCOMPACT; emulates 4-20 mA AMZ	✔	8.01 or higher	—	—	—

* UT = Universal Transponder, see data sheet S4100-0007.
** 2120 CDT = Communicating Device Transponder with MAPNET II and TrueAlarm software.

MAPNET II Communications*

What does it mean?

MAPNET is an acronym for **M**ulti-**A**pplication **P**eripheral **NET**work. MAPNET II was introduced as an improved version of MAPNET (I) in 1991. The improvements included electrical design changes that impacted both the transmit and receive circuits and provided better electrical transient immunity and overall improved performance.

Where is it used?

Availability includes system models 4020/4100/4120 and 4100U/4100ES, and with 2120 Systems using the CDT (Communicating Device Transponder). All MAPNET II transceiver control modules communicate only with MAPNET II compatible addressable devices. (However, some addressable devices can automatically adapt to communicate with **either** MAPNET II or IDNet communication protocols.)

What does it do?

MAPNET II is an addressable communications protocol that provides power and half-duplex communications over a single pair of wires for up to **127 addressable devices**. (Half-duplex communications are bi-directional, but occur in one direction at a time.) Information can include status (normal, trouble, alarm, abnormal, etc.) and commands such as turn on or off a relay, reset a ZAM, or activate a sounder base. Additionally, TrueAlarm analog sensor information is communicated via MAPNET II communications (or IDNet communications).

How does it work?

The control panel sends out polling commands for status monitoring or individual device commands. This occurs by imposing voltage variations on a steady DC level. When the polling stops, the DC level is held high and each responding device answers per its unique address by switching a resistor onto the DC circuit causing data to be readable at the panel. The steady DC level provides power for the MAPNET II communications receiver circuit and, for some low power devices, such as basic smoke/heat sensors and IAMs, can power the entire device – meaning only a single wire pair is required.

IDNet Communications*

What does it mean?

IDNet is an acronym for **I**ndividual **D**evice **Net**work. The IDNet design is the next generation of addressable device communications, improving upon the basic MAPNET II communications protocol.

Where is it used?

IDNet communications are provided by the Simplex® 4010, 4010ES, 4100U, 4100ES, and 4008 Fire Alarm Control Panels. In addition to MAPNET II/IDNet addressable devices, IDNet communications also control unique devices such as the IDNet Isolator base, the 4009 IDNet NAC Extender, and the Security IAM. 4010ES, 4100ES and later versions of 4100U software (revision 11 and higher) also communicate with multi-point relays and the multi-sensor. However, different panels may provide slightly different IDNet device compatibility.

What does it do?

The operation is similar to MAPNET II but there are significant differences. The IDNet protocol and hardware enhancements support up to **250 addressable devices** on a single wire pair and can support additional device types and different operations. (The 4008 Fire Alarm Control Panel provides up to 200 addressable device support.)

How does it work?

Basic operation is similar to that of MAPNET II but with an expanded capability that requires a different control panel to decode the additional device types and operations available with IDNet communications.

What is the difference between 4010 IDNet and 4010ES/4100U/4100ES IDNet?

The basic communications protocol of IDNet is similar, just as RS-232 or RS-485 is similar. However, even though the IDNet communications protocol is similar, not all control panels can recognize all addressable devices. For compatibility reasons, there is a distinction between 4008 and 4010 and 4010ES/4100U/4100ES IDNet.

What is the difference between 4010 IDNet and 4008 IDNet?

The 4008 Addressable panel provides a unique set of features. It is for smaller applications and only two photoelectric sensitivity levels are supported. However, it is capable of controlling the 4090-9116 IDNet Communications Isolator, and it is compatible with the 4090-9007 IDNet Signal IAM.

What is IDNet+?

IDNet+ is a 4010ES/4100U/4100ES device communications circuit that provides isolated IDNet communications for improved noise immunity. This allows IDNet circuits to use existing unshielded and untwisted wiring in conduit with other fire alarm circuits. It includes a built-in quad isolator (or dual isolator for 4010ES base panels) for superior survivability and is compatible with IDNet devices supported by 4010ES/4100U/4100ES IDNet.

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