



# **Device Communications Compatibility Chart**

### Table 1: Devices Compatible with 4007ES, 4008, 4010, 4010ES, 4100ES and 4100U IDNet Communications, and MAPNET II Communications

Model	Description	Model	Description
4090-9101	Class B IDC ZAM	4098-9789, 4098-9775	Sensor Base w/LED/relay output
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, 4098-9776	Standard Sensor Base
4098-9751	In-Duct Sensor Housing with relay	4098-9794	Sounder Base
4098-9755	Duct Sensor Housing without relay	4099-9001, 4099-9004	Addressable Station, Standard
4098-9756	Duct Sensor Housing with relay	4099-9002, 4099-9005	Addressable Station, Breakglass
4098-9780 <sup>1</sup>	2-Wire Sensor Base w/supervised relay	4099-9003, 4099-9006	Addressable Station, Push
4098-XAD-100, 4098-XAD-110, 4098-XAD-200, 4098-XAD-210	Air aspiration sensor housings; 4098-XAD-100, 4098-XAD-110 are single inlet; 4098-XAD-200, 4098-XAD-210 are dual inlet	4099-9020, 4099-9021	NO-GRIP Single Action Addressable Station

### **Table 2: Devices with Special Considerations**

Model	Description	Compatibility
4090-9001	Supervised IAMs; 4090-9051 is encapsulated	<b>4007ES, 4008, 4010, 4010ES, 4100ES and 4100U IDNet</b> provide "T" sense
4090-9051	and w/o LED	MAPNET II provides Class B monitoring of N.O. contacts
4009-9401	TrueAlert Addressable Controller	4010ES, 4100ES, 4100U, and 4100 use RUI; 4010 uses IDNet
4098-9795	Two Address Sounder Base for sensor	<b>4007ES, 4008, 4010, 4010ES, 4100ES, and 4100U IDNet , and MAPNET II</b> ; two
4098-9796	Two Address Standard Base 4098-9754	consecutive addresses; does not provide TrueSense operation; see below for
4098-9754	Photo/Heat Multi-Sensor for above bases	single address applications of 4098-9754
4098-9754 <sup>1</sup>	Photo/Heat Multi-Sensor, one address for	4007ES, 4010ES, 4100ES and 4100U IDNet; uses only one address; use with
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		sensor bases: 4098-9770, 4098-9771, 4098-9780, 4098-9789, 4098-9791, 4098-9792, 4098-9793, 4098-9775, 4098-9776, 4098-9777, 4098-9794 4098-9797, 4098-9798
4098-9734 <sup>1</sup>	High Temperature Heat Sensor	4007ES, 4010ES, and 4100ES
4098-9019 <sup>1</sup> ,	Addressable Beam Detector	4007ES, 4010ES, and 4100ES
4098-9020 <sup>1</sup>		
4099-9012,	Addressable <b>Releasing Station</b> , Push	Use with IDNet or MAPNET II Releasing panels only
4099-9015		
4090-9116 <sup>2</sup>	IDNet Communications Isolator	4007ES, 4008, 4010ES, 4100ES and 4100U IDNet
4090-9007 <sup>1 3</sup>	IDNet Signal IAM	<b>4007ES, 4008, 4010ES, 4100ES, and 4100U IDNet</b> requires <b>one address</b> but consumes <b>two unit loads</b>
4190-9050 <sup>3</sup>	4-20 mA AMZ, revision 2.01 firmware	4007ES, 4010ES, 4100ES, and 4100U IDNet; or 4100U and 4100ES MAPNET II
4190-9051 <sup>3</sup>		Operation (MAPNET II requires one unit load, IDNet requires two unit loads)
4090-9008 <sup>1</sup>	Dual Contact Relay IAM	4007ES, 4010ES, 4100ES, or 4100U IDNet ; or MAPNET II Operation
4090-9010	8 A Relay IAM	4007ES, 4008, 4010, 4010ES, 4100ES, or 4100U IDNet Operation
VLC-600	TrueAlarm LaserCOMPACT	4007ES, 4010ES, 4100ES, and 4100U IDNet; or MAPNET II Operation

# Table 3: Devices Compatible with 4007ES, 4010, 4010ES, 4100ES, and 4100U IDNet Communications Only (except as noted)

Model	Descript	ion	Model	Description		
4009-9201 <sup>1</sup>	4009 IDN	et NAC Extender (4009 A)	4090-9002	Relay IAM (also for use with 4008)		
4009-9301 <sup>1</sup>			4098-9793, 4098-9777 <sup>2</sup>	Isolator Base (also for use with 4008)		
4090-9105	Class B	IDNet Fiber Optic Transmitter	4090-9005 <sup>1</sup>	Suppression Release Peripheral (SRP) without		
4090-9107	Class A			enclosure (uses 2975-9227)		
4009-9809	IDNet Rep	peater	4090-9006 <sup>1</sup>	SRP with Enclosure		
4907-9001 <sup>1</sup>	LED Mess	sage Board		'		

# Table 4: Devices Compatible with 4007ES, 4010ES, 4100ES, and 4100U IDNet Communications Only (except as noted)

Model	Description	Model	Description
4090-9117	Addressable Power Isolator	4090-9120 ¹	6-Pt. Module, 4 T-Sense inputs, 2 relays
4090-9118 <sup>1</sup>	Relay IAM with T-Sense Input	4090-9121	Security Monitor IAM, two unit loads; <b>Not with 4007ES</b>
4090-9119 ¹	Relay IAM with unsupervised input	4100-12741	Microphone Mux. Module (internal IAM); 4100ES/4100U only





Table 4: Devices Compatible with 4007ES	4010FS	4100FS	and 4100U IDNet (	Communications Only	(except as noted)

Model	Description	Model	Description
4098-9770 <sup>1</sup> ,	CO Sensor Standard Base	4098-9771 <sup>1</sup> ,	CO Sensor Sounder Base
4098-9797¹		4098-9798 <sup>1</sup>	
4098-9772 <sup>1</sup> ,	CO Sensor Base with 520Hz Sounder		
4098-9773 <sup>1</sup>			

- 1. Operation is software revision dependent, refer to Software Compatibility Reference for software revision compatibility details for these products.
- 2. **IDNet Isolators and Isolator Bases are not compatible with the 4100-3103 Quad Panel Mount Isolator.** Operation is compatible with other panel modules that provide IDNet, IDNet 1+, IDNet 2, or IDNet 2+2 SLCs.
- 3. For IDNet communications, 1 address is assigned but the available SLC address count is reduced by 2 due to supervisory current requirements. **LISTINGS NOTE:** Refer to individual product data sheets for listings information.

Table 5: Devices Compatible with MAPNET II Communications Only (refer to Table 12 for other legacy products)

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

Table 6: Devices Compatible with 4007ES, 4010, and 4010ES IDNet Communications; with 4100ES with IDNet 2 and IDNet 2+2 Modules, and with 4100ES and 4100U with 4100-3106 IDNet Expansion Module

Model	Description
4098-9757	QuickConnect2 Sensor (uses 4098-9788 multi-purpose base)
4098-9710	QuickConnect Sensor

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# Device Communications Compatibility with Devices in Numerical Order

Table 7: Communications compatibility (This includes legacy devices not listed in Device Communications Compatibility Chart; for currently available products refer to Device Communications Compatibility Chart and product data sheets for additional information)

Model	Description	4007ES, 4010ES, 4100ES, 4100U IDNet (see note)	4010 IDNet	4008 IDNet	MAPNET II
2099-9135	Addressable Station, double action push, no Simplex logo	_	_	_	Yes
2099-9761	Addressable Station, double action push	_	_	_	Yes
2099-9795	Addressable Station, single action	_	_	_	Yes
2099-9796	Addressable Station, double action breakglass	_	_	_	Yes
2099-9797	Addressable Station, single action, LOCAL	_	_	_	Yes
2190-9153	Monitor ZAM, Class A, IDC; surface mount	_	_	_	Yes
2190-9154	Monitor ZAM, Class A, IDC; flush mount	_	_	_	Yes
2190-9155	Monitor ZAM, Class B, IDC; surface mount	_	_	_	Yes
2190-9156	Monitor ZAM, Class B, IDC; flush mount	_	_	_	Yes
2190-9157	4-Wire Detector ZAM, Class B IDC; surface mount	_	_	_	Yes
2190-9158	4-Wire Detector ZAM, Class B IDC; flush mount	_	_	_	Yes
2190-9159	Signal ZAM, Class A NAC; surface mount	_	_	_	Yes
2190-9160	Signal ZAM, Class A NAC; flush mount	_	_	_	Yes
2190-9161	Signal ZAM, Class B NAC; surface mount		_	_	Yes
2190-9162	Signal ZAM, Class B NAC; flush mount				Yes
2190-9163	Control Relay ZAM, DPDT Contacts; surface mount	_	_	_	Yes
2190-9164	Control Relay ZAM, DPDT Contacts; flush mount		_		Yes
2190-9169	Line Powered Isolator, non-addressable; surface mount	_			Yes
2190-9109	Line Powered Isolator, non-addressable; flush mount	<u> </u>		_	Yes
2190-9170	Individual Addressable Module (IAM), includes 2190-9172A (larger)	_	_	_	Yes
2190-9172		_	_	_	Yes
2190-9173	package 2-Point I/O Module				Voc
				_	Yes
4009-9201	4009 IDNet NAC Extender (4009A); 120 VAC input	Yes	Yes	_	_
4009-9301	4009 IDNet NAC Extender (4009A); 240 VAC input	See Software Compatibility Reference for details	Yes		_
4009-9401	TrueAlert Addressable Controller (4009T)	use RUI, not with 4007ES	Yes	_	_
4009-9809	IDNet Repeater (mounts in 4009A or 4009T only)	Yes	Yes	_	_
4090-9001	Supervised IAM with LED	w/T-sense	w/T-sense	w/T-sense	no T-sense
4090-9002	Relay IAM	Yes	Yes	Yes	_
4090-9005	Suppression Release Peripheral (SRP) no enclosure	Yes	w/Rev. 3.01	_	_
4090-9006	SRP with Enclosure	See Software Compatibility Reference for details		_	_
4090-9007	IDNet Signal IAM; one address	Yes  2 unit loads see  Software Compatibility  Reference for details	_	2 unit loads	_
4090-9007 4090-9008	Dual Contact Relay IAM	<b>2</b> unit loads see Software Compatibility	_	2 unit loads	 Yes
		<b>2</b> unit loads see Software Compatibility Reference for details	_	2 unit loads	Yes
4090-9008	Dual Contact Relay IAM	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details	— Yes	_	Yes
4090-9008 4090-9010	Dual Contact Relay IAM  8 A Relay IAM	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes	Yes	— Yes	_
4090-9008 4090-9010 4090-9051	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes w/T-sense	w/T-sense	Yes w/T-sense	— no T-sense
4090-9008 4090-9010 4090-9051 4090-9101	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes w/T-sense Yes	w/T-sense Yes	— Yes	_
4090-9008 4090-9010 4090-9051 4090-9101 4090-9105	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes	w/T-sense Yes Yes	Yes w/T-sense Yes	no T-sense Yes
4090-9008 4090-9010 4090-9051 4090-9101 4090-9105 4090-9106	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes	w/T-sense Yes Yes Yes	Yes w/T-sense	— no T-sense
4090-9008 4090-9010 4090-9051 4090-9101 4090-9105 4090-9106 4090-9107	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM  Class A IDC ZAM  Class A IDNet Fiber Optic Transmitter	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes Yes	w/T-sense Yes Yes	Yes w/T-sense Yes Yes	no T-sense Yes
4090-9008 4090-9010 4090-9051 4090-9101 4090-9105 4090-9106 4090-9107 4090-9116	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM  Class A IDC ZAM  Class A IDNet Fiber Optic Transmitter	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes Yes Yes Yes	w/T-sense Yes Yes Yes	Yes W/T-sense Yes Yes Yes Yes	no T-sense Yes
4090-9008 4090-9010 4090-9051 4090-9101 4090-9105 4090-9106 4090-9107 4090-9116 4090-9117	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM  Class A IDC ZAM  Class A IDNet Fiber Optic Transmitter  IDNet Communications Isolator; see note *  Addressable Power Isolator	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes Yes Yes Yes Yes Yes	w/T-sense Yes Yes Yes	Yes w/T-sense Yes Yes	no T-sense Yes
4090-9008 4090-9010 4090-9051 4090-9101 4090-9105 4090-9106 4090-9116 4090-9117 4090-9118	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM  Class A IDNet Fiber Optic Transmitter  IDNet Communications Isolator; see note *  Addressable Power Isolator  Relay IAM with T-Sense Input	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	w/T-sense Yes Yes Yes Yes — — —	Yes W/T-sense Yes Yes Yes Yes	no T-sense Yes
4090-9008 4090-9010 4090-9051 4090-9101 4090-9106 4090-9107 4090-9116 4090-9117 4090-9118 4090-9119	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM  Class A IDNet Fiber Optic Transmitter  IDNet Communications Isolator; see note *  Addressable Power Isolator  Relay IAM with T-Sense Input  Relay IAM with unsupervised input	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes Yes Yes Yes Yes Yes See Software Compatibility	w/T-sense Yes Yes Yes Yes	Yes w/T-sense Yes Yes Yes	
4090-9008 4090-9010 4090-9051 4090-9105 4090-9106 4090-9107 4090-9116 4090-9117 4090-9118 4090-9119 4090-9120	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM  Class A IDNet Fiber Optic Transmitter  IDNet Communications Isolator; see note *  Addressable Power Isolator  Relay IAM with T-Sense Input  Relay IAM with unsupervised input  6-Pt. Module, 4 T-Sense inputs, 2 relays	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes Yes Yes Yes See Software Compatibility Reference for details	w/T-sense Yes Yes Yes Yes — — — — —	Yes w/T-sense Yes Yes Yes	no T-sense Yes
4090-9008 4090-9010 4090-9051 4090-9101 4090-9106 4090-9107 4090-9116 4090-9117 4090-9118 4090-9119	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM  Class A IDNet Fiber Optic Transmitter  IDNet Communications Isolator; see note *  Addressable Power Isolator  Relay IAM with T-Sense Input  Relay IAM with unsupervised input	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes Yes Yes Yes Yes Yes See Software Compatibility	w/T-sense Yes Yes Yes Yes	Yes w/T-sense Yes Yes Yes	
4090-9008 4090-9010 4090-9051 4090-9105 4090-9106 4090-9107 4090-9116 4090-9117 4090-9118 4090-9119 4090-9120	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM  Class A IDNet Fiber Optic Transmitter  IDNet Communications Isolator; see note *  Addressable Power Isolator  Relay IAM with T-Sense Input  Relay IAM with unsupervised input  6-Pt. Module, 4 T-Sense inputs, 2 relays	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	w/T-sense Yes Yes Yes Yes — — — — —	Yes w/T-sense Yes Yes Yes	
4090-9008 4090-9010 4090-9051 4090-9101 4090-9106 4090-9107 4090-9116 4090-9117 4090-9118 4090-9119 4090-9120 4090-9121	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM  Class A IDC ZAM  Class A IDNet Fiber Optic Transmitter  IDNet Communications Isolator; see note *  Addressable Power Isolator  Relay IAM with T-Sense Input  Relay IAM with unsupervised input  6-Pt. Module, 4 T-Sense inputs, 2 relays  Security Monitor IAM, 2 unit loads	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	w/T-sense Yes Yes Yes Yes —————————————————————	Yes w/T-sense Yes Yes Yes	ro T-sense Yes Yes Yes Yes
4090-9008 4090-9010 4090-9051 4090-9101 4090-9105 4090-9106 4090-9116 4090-9117 4090-9118 4090-9118 4090-9120 4090-9121 4098-9702	Dual Contact Relay IAM  8 A Relay IAM  Supervised IAMs; encapsulated w/o LED  Class B IDC ZAM  Class B IDNet Fiber Optic Transmitter  Class A IDC ZAM  Class A IDC ZAM  Class A IDNet Fiber Optic Transmitter  IDNet Communications Isolator; see note *  Addressable Power Isolator  Relay IAM with T-Sense Input  Relay IAM with unsupervised input  6-Pt. Module, 4 T-Sense inputs, 2 relays  Security Monitor IAM, 2 unit loads  Duct Sensor for 4098-9701 Sensor Head 4-wire	2 unit loads see Software Compatibility Reference for details Yes See Software Compatibility Reference for details Yes W/T-sense Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	w/T-sense Yes Yes Yes Yes —————————————————————	Yes w/T-sense Yes Yes Yes	ro T-sense Yes Yes Yes Yes Yes

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Table 7: Communications compatibility (This includes legacy devices not listed in Device Communications Compatibility Chart; for currently available products refer to Device Communications Compatibility Chart and product data sheets for additional information)

Model	Description	4007ES, 4010ES, 4100ES,	4010	4008 IDNet	MAPNET II
		4100U IDNet (see note)	IDNet		
4098-9706	Duct Sensor for 4098-9701 Head 4-wire w/4" base	_	_	_	Yes
4098-9707	Duct Sensor for 4098-9701 Head 2-wire w/4" base (2120 CDT)	_	_	_	Yes
4098-9708	In-Duct Sensor for 4098-9701 Head 4-wire w/4" base	_	_	_	Yes
4098-9709	In-Duct Sensor for 4098-9701 Head 2-wire w/4" base (2120 CDT)	_	_	_	Yes

Note: IDNet Isolators and Isolator Bases are not compatible with the 4100-3103 Quad Panel Mount Isolator.

Table 8: Communications compatibility (This includes legacy MAPNET II devices not listed in Device Communications Compatibility Chart; for currently available products refer to Device Communications Compatibility Chart and product data sheets for additional information)

Model	Description	4007ES, 4010ES, 4100ES, 4100U IDNet (see note)	4010 IDNet	4008 IDNet	MAPNET II
4098-9734	High Temperature Heat Sensor	Yes	_	_	_
		Not with 4100U,			
		See Software Compatibility Reference for details			
4098-9750	In-Duct Sensor Housing without relay	Yes	Yes	Yes	Yes
4098-9751	In-Duct Sensor Housing with relay	Yes	Yes	Yes	Yes
4098-9752	Legacy Duct Housing for 4098-9714 without relay (2120 CDT)	Yes	Yes	Yes	Yes
4098-9753	Legacy Duct Housing for 4098-9714 with relay	Yes	Yes	Yes	Yes
4098-9710	QuickConnect sensor	Yes	Yes	_	_
4098-9757	QuickConnect2 Sensor (uses 4098-9788 base)	See Device Communications Compatibility Chartfor compatibility details			
4098-9780	2-Wire Sensor Base w/supv. relay	Yes	Yes	Yes	Yes
		See Software Compatibility Reference for details			
4098-9781	Sensor Base 6-3/8"	_	_	_	Yes
4098-9782	Sensor Base 6-3/8" w/sounder	_	_	_	Yes
4098-9783	Sensor Base 6-3/8" w/remote relay driver	_	_	_	Yes
4098-9784	Standard Sensor Base 4"	Yes	Yes	Yes	Yes
4098-9785	Sensor Base 4" w/conn. For remote alarm ind. Or relay	Yes	Yes	Yes	Yes
4098-9786	Sounder Base 6-3/8" w/conn. For remote alarm ind. Or relay	Yes	Yes	Yes	Yes
4098-9787	Sensor Base 4" w/supv. remote relay & remote ind. Or relay	Yes	Yes	Yes	Yes
4098-9789, 4098-9775	Sensor Base; remote LED or unsupervised relay	Yes	Yes	Yes	Yes
4098-9791	4-Wire Sensor Base; remote LED or relay; and supv. remote relay	Yes	Yes	Yes	Yes
4098-9792,	Standard Sensor Base	Yes	Yes	Yes	Yes
4098-9776					
4098-9793,	Isolator Base; see 4100U/4100ES note *	Yes	Yes	Yes	
4098-9777	Solder Base, See House House				
4098-9794	Sounder Base	Yes	Yes	Yes	Yes
4098-9795	Two Address Sounder Base for 4098-9754	Yes	Yes	Yes	Yes
4098-9796	Two Address Standard Base for 4098-9754	Yes	Yes	Yes	Yes
4098-9770,	CO Sensor Standard Base	Yes			
4098-9797	Co Serisor Staridard Base	See Software Compatibility			
4098-9771, 4098-9798	CO Sensor Sounder Base	Reference for details	_	_	_
4098-9772, 4098-9773	CO Sensor Base with 520Hz Sounder	-	_	_	_
4098-9019, 4098-9020	Addressable Beam Detector	Yes 4007ES, 4010ES, 4100ES	_	_	_
4099-9001, 4099-9004	Addressable Station, Standard	Yes	Yes	Yes	Yes
4099-9002, 4099-9005	Addressable Station, Breakglass	Yes	Yes	Yes	Yes
4099-9003, 4099-9006	Addressable Station, Push	Yes	Yes	Yes	Yes

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Table 8: Communications compatibility (This includes legacy MAPNET II devices not listed in Device Communications Compatibility Chart; for currently available products refer to Device Communications Compatibility Chart and product data sheets for additional information)

Model	Description	4007ES, 4010ES, 4100ES, 4100U IDNet (see note)	4010 IDNet	4008 IDNet	MAPNET II
4099-9012,	Addressable <b>Releasing Station</b> , Push	Yes	Yes	_	Yes
4099-9021		not 4007ES			
4099-9020, 4099-9015	NO-GRIP Single Action Addressable Station	Yes	Yes	Yes	Yes
4100-1274	Microphone Multiplex Module (internal IAM)	Yes	_	_	_
		4100ES and 4100U only, see Software Compatibility Reference for details			
4190-9050	4-20 mA AMZ, revision 2.01 firmware; surface mount	2 unit loads	_	_	<b>1</b> unit load
4190-9051	4-20 mA AMZ, revision 2.01 firmware; flush mount		_	_	
4907-9001	LED Message Board	Yes	Yes	_	_
VLC-600	TrueAlarm LaserCOMPACT; emulates 4-20 mA AMZ	Yes	_	_	Yes

Note: IDNet Isolators and Isolator Bases are not compatible with the 4100-3103 Quad Panel Mount Isolator.

## 4100ES/4010ES/4007ES/4100U Multi-Point Device Point Allocations

**Note:** Points and/or sub-points required to be mapped over the Network are designated as "Public" in the programmer. For Table 9 through Table 14 refer to footnotes 1 and 2 at the end of Table 14 for I/O Point Usage and Public Points Usage guidelines.

### Table 9: 4009 IDNet NAC Extender (4009A)

Model	Description		4007ES, 4010ES, 4100ES, 4100U I/O Point Usage <sup>1</sup>	Public Points Usage <sup>2</sup>
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

### Table 10: Addressable I/O Devices

Model	Description	Point Type	4007ES, 4010ES, 4100ES, 4100U I/O Point Usage <sup>1</sup>	Public Points Usage <sup>2</sup>
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
4090-9120	6-Pt. Module, 4 T-Sense inputs, 2 relays	MLPTIO	<b>6;</b> 1 per relay, 1 per input	up to 7; 1 per relay, 1 per input,
				1 for trouble

### Table 11: TrueAlarm Sensor Bases with 4098-9754, Photo/Heat, TrueSense Multi-Sensor

Model	Description		Point Type	Panel I/O Po	int Usage¹	Public Points Usage <sup>2</sup>
				4007ES,	4100U	
				4010ES,		
				4100ES		
4098-9792,	Standard Sensor Ba	se, no outputs	СОМВО	1	<b>2;</b> 1 for	up to 4; 1 for smoke, 1 for heat,
4098-9776					smoke,1 for	1 for correlation, 1 for trouble
4098-9789,	Sensor Base with remote LED or				heat	
4098-9775	unsupervised relay;	on with alarm				
4098-9780	2-Wire Sensor Base		RCOMBO	1	<b>2;</b> 1 for	up to 5; 1 for smoke, 1 for heat,
4098-9791	4-Wire Sensor Base LED or relay; and			smoke,1 for	1 for correlation,1 for trouble,	
		supervised remote relay			heat	1 for relay
4098-9793,	Isolator Base		ICOMBO	1	2; 1 for smoke,	up to 5; 1 for smoke, 1 for heat,
4098-9777					1 for heat	1 for correlation,1 for trouble,
						1 for isolator
4098-9794	Sounder Base		SCOMBO	1	2; 1 for smoke,	up to 5; 1 for smoke, 1 for heat,
					1 for heat	1 for correlation,1 for trouble,
						1 for sounder

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# Table 12: TrueAlarm CO Sensor Standard Base 4098-9770, 4098-9797 with Compatible Sensors

Sensor Model	Photoelectric Smoke Sensor	Point Type	Panel I/O F	Point Usage¹	Public Points Usage <sup>2</sup>	
			4007ES, 4010ES, 4100ES	4100U		
4098-9714, 4098-9774		MCOPS	1	2; 1 for photo, 1 for CO	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, 4098-9779	Multi-Sensor, Photoelectric and Heat Sensing	МСОРН	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, 4098-9778	Heat Sensor	мсонѕ	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	МСОІ	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)	

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# 4010ES/4100U/4100ES Multi-Point Device Point Allocations

## Table 13: TrueAlarm CO Sensor Sounder Base 4098-9771, 4098-9798 with Compatible Sensors

Sensor Model	Description	Point Type	Panel I/O Point Usage		I/O Point Usage <sup>2</sup>
			4007ES, 4010ES, 4100ES	4100U	_
4098-9714,	Photoelectric Smoke Sensor	MCOPS	1	2;	up to 6;
4098-9774				1 for photo, 1 for CO	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
4098-9754,	Multi-Sensor, Photoelectric and Heat	MCOPHS	1	3;	(MAOFF) up to 7;
4098-9779	Sensing			1 for photo, 1 for heat, 1 for CO	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;	up to 5;
4098-9778				1 for heat, 1 for CO	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;	up to 5;
				1 for ion, 1 for CO	1 for trouble reporting, 1 for sounder (MSOUND), 1 for ion (MION), 1 for CO gas (MCOGAS), 1 for CO fire (MACOFIRE)

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Table 14: TrueAlarm CO Sensor Base with Sounder 4098-9772 and 4098-9773 with Compatible Sensors

Sensor Model	Description	Point Type	Panel I/O Point Usage <sup>1</sup>		I/O Point Usage²
			4007ES, 4010ES, 4100ES	4100U	
4098-9714,	Photoelectric Smoke Sensor	MCOPS	1	2;	up to 6;
4098-9774				1 for photo, 1 for CO	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, 4098-9779	Multi-Sensor, Photoelectric and Heat Sensing	МСОРНЅ	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;	up to 5;
4098-9778				1 for heat, 1 for CO	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. 4007ES Point Usage depends on options selected, 100, 175, or 250, refer to 4007ES documentation for details.
- 2. 4100ES/4100U Public Points Usage = 2500 max per 4100ES/4100U to other nodes. 4007ES and 4010ES Public Points Usage; all 4007ES and 4010ES points may be made public to other nodes.

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# Table 15: MAPNET II Device Panel Compatibility (Yes = compatibile)

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		Yes		Yes
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				
2190-9172	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		Yes		Yes, but
4090-9051	Supervised IAMs; encapsulated w/o LED, without T-sense		162		without latch/
					track selection
4090-9101	Class B IDC ZAM		Yes		Yes
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				
4098-9705	In-Duct Sensor for 4098-9701 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 4098-9701 Head 2-wire w/4" base				
4098-9750	In-Duct Sensor Housing without relay		Yes		Yes
4098-9751	In-Duct Sensor Housing with relay		Yes		_
4098-9754	Photo/Heat Multi-Sensor used with dual address bases		Yes		_
4098-9755	Duct Sensor Housing without relay		Yes		Yes
4098-9756	Duct Sensor Housing with relay		Yes		_
4098-9780	2-Wire Sensor Base w/supv. relay		Yes		_
4098-9781	Sensor Base 6-3/8"		Yes		Yes
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		Yes		Yes
4098-9775	Sensor base, remote LLD or unsupervised relay		162		163
4098-9791	4-Wire Sensor Base w/supv. relay		Yes		_
4098-9792,	Standard Sensor Base		Yes		Yes
4098-9776	30.00. 5050		. 20		
4098-9794	Sounder Base		Yes		_
4098-9795	Two Address Sounder Base for 4098-9754		Yes		_
4098-9796	Two Address Standard Base for 4098-9754		Yes		_
4099-9001	Addressable Station, Standard		Yes		Yes
4099-9002	Addressable Station, Breakglass				
4099-9003	Addressable Station, Push				
-077-3003	/ Nati Coourie Station, Fash				

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**Simplex** 



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	Yes	Yes with	-	-	-
4190-9051	4-20 mA AMZ, revision 2.01 firmware; flush mount, 1 unit load	Yes	revision 8 or higher	-	-	-
VLC-600	TrueAlarm LaserCOMPACT; emulates 4-20 mA AMZ	Yes	Yes with revision 8.01 or higher	-	-	-

<sup>\*</sup> UT = Universal Transponder, see data sheet S4100-0007.

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<sup>\*\* 2120</sup> CDT = Communicating Device Transponder with MAPNET II and TrueAlarm software.



### **IDNet Communications**

#### What does it mean?

IDNet is an acronym for Individual Device Network. The IDNet design is the latest generation of addressable device communications, improving upon the basic MAPNET II communications protocol.

#### Where is it used?

IDNet communications are provided by Simplex 4010, 4007ES, 4008, 4010ES, 4100ES, and 4100U Fire Alarm Control Units (FACU). In addition to IDNet/MAPNET II addressable devices, IDNet communications adds new devices such as the IDNet Isolator base, the 4009 IDNet NAC Extender, and the Security IAM. 4007ES, 4010ES, 4100ES, and later versions of 4100U software (revision 11 and higher) also communicate with multi-point relays and the multi-sensor. Different FACUs may provide different 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 FACU provides up to 200 addressable device support, the 4007ES is standard with 100 devices and optionally up to 250.)

#### How does it work?

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

### What is the difference between 4010 IDNet and 4007ES, 4010ES, 4100ES, and 4100U IDNet operation?

The basic communications protocol of IDNet operation is similar, just as RS-232 or RS-485 is similar. However, even though the IDNet communications protocol is similar, not all control FACUs can recognize all addressable devices. For compatibility reasons, there is a distinction between 4008 and 4010, and 4007ES, 4010ES, 4100ES, and 4100U IDNet operation.

#### What is the difference between 4010 IDNet and 4008 IDNet operation?

The 4008 Addressable FACU 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 2 and IDNet 2+2 operation?

**IDNet 2** describes 4100ES and 4010ES FACUs that provide a 250 point electrically isolated IDNet channel with a two short circuit isolating output loop module that provides improved noise immunity and allows IDNet circuits to use existing unshielded and untwisted wiring in conduit with other fire alarm circuits. The communications scheme is standard IDNet format. IDNet 2 output is compatible with QuickConnect and QuickConnect2 sensors, Isolator bases, and IDNet Isolators.

**IDNet 2+2** describes 4100ES and 4010ES FACUs that provide a 250 point isolated IDNet channel with a **four** short circuit isolating output loop module. The communications scheme is standard IDNet format and compatibility is the same as IDNet 2 operation.

#### What is IDNet+ operation?

"IDNet+" describes an electrically isolated IDNet SLC with a single output loop and with improved noise immunity as provided by the 4007ES, and by 4010ES FACUs without an IDNet 2 SLC.

IDNet+ was originally used to describe the isolated IDNet SLC provided by the 4100-3107 module for 4100ES and 4100U FACUs. 4100-3107 provided four isolated output loops with 246 addressable point capacity. This module is not needed for 4100ES FACUs with IDNet 2 or IDNet 2+2 SLC modules.

#### What is IDNet 1+ operation?

**IDNet 1+** describes the original electrically isolated IDNet SLC single loop output of the 4100ES with EPS. IDNet 1+ has been replaced by the IDNet 2 and IDNet 2+2 modules.

Refer to specific FACU data sheets for additional information.

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### **MAPNET II Communications**

#### What does it mean?

MAPNET is an acronym for Multi-Application Peripheral NETwork. 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 FACU 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 for each its unique address by switching a resistor onto the DC circuit causing data to be readable at the FACU. 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.

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# Software Compatibility Reference

# Table 16: Software compatibility reference

Model	Description	Software Revision Requirements
4009-9201	4009 IDNet NAC Extender (4009A)	Use with 4100U requires software revision 11 or higher
4009-9301		
4090-9005	Suppression Release Peripheral (SRP) without enclosure (uses 2975-9227)	Requires 4007ES Revision 3.04 software or higher; or 4010 Revision 3.01 software or higher; or 4100U Revision 11.05 software or higher, or
4090-9006	SRP with Enclosure	4010ES/4100ES
4090-9007	IDNet Signal IAM	Use with 4100U requires software revision 11.11.01 or higher
4090-9008	Dual Contact Relay IAM	Use requires IDNet firmware revision 3.12.01 or higher
4090-9118	Relay IAM with T-Sense Input	Use with 4100U requires revision 11.0 software or higher
4090-9119	Relay IAM with unsupervised input	
4090-9120	6-Point Module, 4 T-Sense inputs, 2 relays	
4098-9754, 4098-9779	Photo/Heat Multi-Sensor	
4098-9019, 4098-9020	Addressable Beam Detector	Please refer to data sheet S4098-0049 for detailed compatibility information
4098-9797	CO Sensor Standard Base, <b>5 Year</b> CO sensor life	Use with 4100ES and 4100U at software revision 12.05 or higher
4098-9798	CO Sensor Sounder Base, <b>5 Year</b> CO sensor life	(models now superseded by 10 year life CO sensors)
4098-9780	2-Wire Sensor Base with Supervised Relay	Use requires IDNet firmware revision 3.12.04 or higher
4098-9770	CO Sensor Standard Base, <b>10 Year</b> CO sensor life	Use with 4007ES; and 4100ES or 4010ES at software revision 2.01.02 or
4098-9771	CO Sensor Sounder Base, <b>10 Year</b> CO sensor life	higher.
4098-9772	CO Sensor Base with 520 Hz Sounder, <b>10 Year</b> CO sensor life	<b>Note:</b> Use with 4100U only provides 5 year CO sensor life, and requires 4100U software at revision 12.05 or higher
4098-9773	CO Sensor Base with 520 Hz Sounder, <b>10 Year</b> CO sensor life	Troop solution at revision 12.05 of higher
4100-1274	Microphone Multiplex Module (with internal IAM)	Use with 4100ES and 4100U at software revision 12.06 or higher
4907-9001	LED Message Board	Use with 4100U at software revision 12.05.04 or higher and IDNet/SPS at revision 3.11.03 or higher
4098-9734	High Temperature Heat Sensor	Use with 4007ES, 4010ES or 4100ES software revision 3.03.05 or higher and IDNet2 or IDNet2+2 at software revision 1.02 or higher.
		Use with the following IDNet modules revision 3.12.12 or higher: 250-point IDNet, SPS, IDNet+, IDNet1+, 4010ES MSS2.
		Not compatible with 4100U.

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