

Innotech Control Systems



SHORT FORM PRODUCT CATALOGUE Effective 01/09/2007

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QUEENSLAND		
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BONLEC CONTROLS – MACKAY Phone: 07 4956 7179 Fax: 07 4956 6566 Email: mkysales@bonlec.com.au	Shed 13, 2 Woodman Parade PAGET QLD 4740	Shed 13, 2 Woodman Parade PAGET QLD 4740
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INNOTECH TASMANIA Phone: 03 6273 1577 Fax: 03 6272 8040 Email: peter@parrair.com.au	GPO Box 1377P HOBART TAS 7001	41 Lampton Avenue DERWENT PARK TAS 7009
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About Innotech

Over the years, we have built a solid reputation of being a leader within the Heating Ventilation and Air Conditioning (HVAC) Controls industry - a provider of imaginative and innovative products and solutions, delivering practical and consistent technical service and advice.

Combining many years of industry experience with on-going research, development and leading-edge production techniques, we can empower you with total HVAC, water treatment and environmental control. We can do this by providing you with a powerful control system that is flexible, accurate, reliable, and easy to use and program.

We are the largest developer and manufacturer of HVAC controls in Australia. All of our products are developed, manufactured and tested in-house, while compliance testing is conducted by independent testing houses to ensure all Innotech products conform to various national and international standards and requirements.

The products contained within this catalogue are just a sample of the range of over 300 digital, analogue and software products that make up the INNOTECH range. These exciting products are supported by a global network of fully trained and qualified control specialists who can help tailor an Innotech control system to suit your individual needs.

Innotech Control Systems have been designing and manufacturing the INNOTECH range of environmental controls since 1985.

Data Sheets

All data sheets and other support files can be downloaded from the Innotech website:-

www.innotech.com.au


Note: data sheet numbers are shown next to the part numbers in the pages that follow.


Prices and Conditions


Please contact the nearest office or distributor to confirm the current prices and availability of products.


Section 1 – Detectors


Temperature Detectors – Thermistor

Wall Mounted Temperature Detectors 	SENW1	(DS 1.15)	Wall Detector Plain
	SENW1A	(DS 1.15)	Wall Detector Plain Averaging
	SENW2	(DS 1.15)	Wall Detector Adjustable +/- 3°C
	SENW5	(DS 1.15)	Wall Detector with After Hours Pushbutton
	SENW6	(DS 8.22)	Wall Detector with Remote Adjustor 4 wire





Wall Mounted Detectors 	SENW21	(DS 1.27)	Wall Mounted Temperature Detector
	SENW21A	(DS 1.27)	Wall Mounted Temperature Detector

Duct Detector 	SEND2	(DS 1.16)	Duct Detector Bead Type
	SEND3	(DS 1.16)	Duct Detector in Housing

Immersion Detectors 	SENP1	(DS 1.17)	Immersion Detector with ½ BSP thread
	SENP2	(DS 1.17)	Immersion Detector for use with a well; 8mm diameter
	SENP3	(DS 1.17)	Immersion Detector for use with a well; 6mm diameter


Wireless Temp Detectors 	SENR1	(DS 1.18)	Wireless Temperature Sensor
	SENR2	(DS 1.18)	Wireless Temperature Sensor REM with Adjustment
	SENR5	(DS 1.18)	Wireless Temperature Sensor REM with After Hours Pushbutton
	SENR6	(DS 1.18)	Wireless Temperature Sensor REM with Adjustment and After Hours Pushbutton

Temperature Detectors – Current Loop

Wall Detectors 	ITW4001 (DS 1.11)	Wall Detector Plain
	ITW4002 (DS 1.11)	Wall Detector Adjustable +/- 3° C
	ITW4002-2 (DS 1.11)	Wall Detector Adjustable +/- 1° C
	ITW4003 (DS 1.11)	Wall Detector Internal Adjustable +/- 3° C
	ITW5201 (DS 1.21)	Wall Detector with Display
Wall Mounted Detector 	ITW6001 (DS 1.24)	Wall Mounted Temperature Detector
Duct Detector 	ITD4001 (DS 1.12)	Duct Detector in Housing
Immersion Detectors 	ITI4001 (DS 1.13)	Immersion Detector with ½ BSP thread
	ITI4002 (DS 1.13)	Immersion Detector for use with a well; 8mm diameter


Section 2 – Controllers

Controllers – Actuator Package

Actuator Package Control 	IAP4012 (DS 2.01)	Actuator Package Control DIN Mounted with 2 Floating Triacs Output and 2 Relay Outputs
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Note: Uses ITI Series Detector; refer to pages 1 and 2

Controllers – Temperature


Temperature Controllers 	ITC4001 (DS 2.11)	Temperature Controller DIN Mounted with Direct and Reverse Acting Signal Outputs
	ITC4701 (DS 2.12)	Temperature Controller DIN Mounted with a Direct Acting Signal Output
	ITC4801 (DS 2.13)	Temperature Controller DIN Mounted with a Reverse Acting Signal Output

Note: Uses ITn Series Detector; refer to pages 1 and 2

Controllers – Current


Current Controllers 	IIC4001 (DS 2.21)	4-20mA Current Controller DIN Mounted with Direct and Reverse Acting Signal Outputs
	IIC4701 (DS 2.22)	4-20mA Current Controller DIN Mounted with Direct Acting Signal Output
	IIC4801 (DS 2.22)	4-20mA Current Controller DIN Mounted with Reverse Acting Signal Output

Controllers – Voltage


Voltage Controllers 	IVC4001 (DS 2.25)	Voltage Controller DIN Mounted with Direct and Reverse Acting Signal Outputs
	IVC4701 (DS 2.26)	Voltage Controller DIN Mounted with Direct Acting Signal Output
	IVC4801 (DS 2.26)	Voltage Controller DIN Mounted with Reverse Acting Signal Output

Section 2 – Controllers (continued)


Controllers – Humidity

Humidity Controllers 	IHC4001 (DS 2.31)	Humidity Controller DIN Mounted with Direct and Reverse Acting Signal Outputs
	IPH4011 (DS 2.32)	Package Humidity Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 1 Hum and 1 Dehum Relay Outputs
	IPH4012 (DS 2.32)	Package Humidity Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 1 Hum and 2 Dehum Relay Outputs
	IPH4013 (DS 2.32)	Package Humidity Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 1 Hum and 3 Dehum Relay Outputs
	IPH4014 (DS 2.32)	Package Humidity Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 1 Hum and 4 Dehum Relay Outputs

Controllers – Differential

Differential Controller 	IDC4001 (DS 2.41)	Differential Controller DIN Mounted with 2 Temperature Input and 1 Relay Output
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Controllers – Package

Package Controllers 	IPC4011 (DS 2.51)	Package Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 1 Heat and 1 Cool Relay Outputs
	IPC4022 (DS 2.51)	Package Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 2 Heat and 2 Cool Relay Outputs
	IPC4005 (DS 2.51)	Package Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 5 Cooling Relay Outputs
	IPC4050 (DS 2.51)	Package Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 5 Heating Relay Outputs
	IPC4014 (DS 2.51)	Package Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 1 Heat and 4 Cool Relay Outputs
	IPC4023 (DS 2.51)	Package Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 2 Heat and 3 Cool Relay Outputs
	IPC4032 (DS 2.51)	Package Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 3 Heat and 2 Cool Relay Outputs
	IPC4041 (DS 2.51)	Package Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 4 Heat and 1 Cool Relay Outputs


Note: Uses ITn Series Detector; refer to pages 1 and 2

Section 2 – Controllers (continued)


Controllers – Modular

	IMC5011 (DS 2.64)	Modular Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 1 Heat and 1 Cool Relay Outputs and External Setpoint Adjustment
	IMC5022 (DS 2.64)	Modular Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, and 2 Heat and 2 Cool Relay Outputs and External Setpoint Adjustment

Note: Uses ITn Series Detector; refer to pages 1 and 2

	IMC5201 (DS 2.65)	Modular Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, Heat Valve Output and External Setpoint adjustment
	IMC5201 (DS 2.65)	Modular Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, Heat Valve Output, 1 Cool Relay and External Setpoint Adjustment
	IMC5202 (DS 2.65)	Modular Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, Heat Valve Output, 2 Cool Relays and External Setpoint Adjustment
	IMC5211 (DS 2.65)	Modular Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, Heat Valve Output, 1 Cool and 1 Heat Relays and External Setpoint Adjustment
	IMC5212 (DS 2.65)	Modular Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, Heat Valve Output, 2 Cool and 1 Heat Relays and External Setpoint Adjustment

Note: Uses ITn Series Detector; refer to pages 1 and 2


	IMC5311 (DS 2.66)	Modular Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, Economy Output, 1 Cool and 1 Heat Relays and External Setpoint Adjustment
	IMC5322 (DS 2.66)	Modular Controller DIN Mounted with Direct and Reverse Acting Signal Outputs, Economy Output, 2 Cool and 2 Heat Relays and External Setpoint Adjustment

Note: 1. These controllers can be configured in the factory for detector averaging or remote setpoint adjustment

2. Uses ITn Series Detector; refer to pages 1 and 2


Section 2 – Controllers (continued)

Microstat Controllers

Microstat Controllers 	MS01-01 (DS 2.70)	Microcontroller with 1 Heat, 1 Cool and 3 Speed Fan Relay Outputs, 3 Part Construction Display, Relay Box and Detector, On/Off, Heat/Cool/Auto, 3 Speed Fan, Timer and Setpoint Adjustment via Wall Plate
	MS1-03 (DS 2.71)	Microcontroller with 2 Heat, 2 Cool and 1 Speed Fan Relay Outputs, 3 Part Construction Display, Relay Box and Detector, On/Off, Timer and Setpoint Adjustment via Wall Plate
	MS1-07 (DS 2.73)	Microcontroller with 2 Heat, 2 Cool and 1 Speed Fan Relay Outputs, 3 Part Construction Display, Relay Box and Detector, On/Off and Setpoint Adjustment via Wall Plate
	MS5-01 (DS 2.75)	Microcontroller with 1 Heat, 3 Speed Fan Relay Outputs and 1 Chilled Water Output, 3 Part Construction Display, Relay Box and Detector, On/Off, Heat/Cool/Auto, 3 Speed Fan, Timer and Setpoint Adjustment via Wall Plate
	MS5-03 (DS 2.76)	Microcontroller with 1 Heat, 2 Cool, 1 Speed Fan, 1 Economy Controller, 3 Part Construction Display, Relay Box and Detector, On/Off, Timer and Setpoint Adjustment via Wall Plate
	MS5-04 (DS 2.77)	Microcontroller with 1 Cool, 3 Speed Fan, 1 Hot Water Controller, 3 Part Construction Display, Relay Box and Detector, On/Off, Timer and Setpoint Adjustment via Wall Plate
	MTC01 (DS 2.74)	Microcontroller with 2 Heat, 2 Cool, 1 Speed Fan, 365 Day Timeclock, 3 Part Construction Display, Relay Box and Detector, Includes a 365 Day Timeclock

Note: 1. There are many additional versions of the Microstat made for specific applications
 2. Comes with Thermistor Detector; refer to page 1


Electronic Controllers

Electronic Controllers 	IWC2001 (DS 2.84)	Controller Wall Mounted with Direct and Reverse Acting Signal Outputs, 240VAC
	IWC4001 (DS 2.84)	Controller Wall Mounted with Direct and Reverse Acting Signal Outputs, 24VAC
	IWP2011 (DS 2.83)	Controller Wall Mounted with Direct and Reverse Acting Signal Outputs and 1 Heat and 1 Cool Relay Outputs, 240VAC
	IWP2022 (DS 2.83)	Controller Wall Mounted with Direct and Reverse Acting Signal Outputs and 2 Heat and 2 Cool Relay Outputs, 240VAC
	IWP4011 (DS 2.83)	Controller Wall Mounted with Direct and Reverse Acting Signal Outputs and 1 Heat and 1 Cool Relay Outputs, 24VAC
	IWP4022 (DS 2.83)	Controller Wall Mounted with Direct and Reverse Acting Signal Outputs and 2 Heat and 2 Cool Relay Outputs, 24VAC

Note: Uses Sen Series Detector; refer to page 1


Section 2 – Controllers (continued)

Modular Thermostats

Modular Thermostats 	IMT5011 (DS 2.85)	Modular Thermostat Controller DIN Mounted with Direct and Reverse Acting Signal Outputs and 1 Heat and 1 Cool Relay Outputs, 24 or 240VAC
	IMT5022 (DS 2.85)	Modular Thermostat Controller DIN Mounted with Direct and Reverse Acting Signal Outputs and 2 Heat and 2 Cool Relay Outputs, 24 or 240VAC
	IMT6011 (DS 2.86)	Modular Thermostat Controller DIN Mounted with Direct and Reverse Acting Signal Outputs and 2 Heat and 2 Cool Relay Outputs, 24 or 240VAC with Display
	IMT6022 (DS 2.86)	Modular Thermostat Controller DIN Mounted with Direct and Reverse Acting Signal Outputs and 2 Heat and 2 Cool Relay Outputs, 24 or 240VAC with Display


Note: Uses Sen Series Detector; refer to page 1

Picostat Controllers

Picostat Controllers 	PS2002 (DS 2.89)	Picostat Controller Wall Mounted 1 Fan and 2 Cool Relays, 240VAC
	PS2011 (DS 2.89)	Picostat Controller Wall Mounted 1 Fan, 1 Heat and 1 Cool Relays, 240VAC
	PS2020 (DS 2.89)	Picostat Controller Wall Mounted 1 Fan and 2 Heat Relays, 240VAC

Note: Comes with Thermistor Detector; refer to page 1


Ecostat Controllers

Ecostat Controllers 	ES3-1 (DS 2.91)	Ecostat Controller with 1 Heat, 1 Cool and 3 Speed Fan Relay Outputs, 3 Part Construction Wall Plate, Relay Box and Detector, On/Off, 3 Speed Fan, and Setpoint Adjustment via Wall Plate
	ES3-3 (DS 2.93)	Ecostat Controller with 2 Heat, 2 Cool and 1 Fan Relay Outputs, 3 Part Construction Wall Plate, Relay Box and Detector, On/Off and Setpoint Adjustment via Wall Plate
	ES3-1-H (DS 2.98)	Ecostat Controller with 1 Heat, 1 Cool and 3 Speed Fan Relay Outputs, 3 Part Construction Wall Plate, Relay Box and Detector, On/Off, 3 Speed Fan, and Setpoint Adjustment via horizontally Mounted Wall Plate

Note: 1. There are many additional versions of the Ecostat made for specific applications
 2. Comes with Thermistor Detector; refer to page 1


Section 2 – Controllers (continued)

Micro2000 Controllers

<p>Micro2000 Controllers</p> 	<p>M2K01 (DS 9.00)</p>	<p>Micro2000 Controller with 7 Day/4 Event Timeclock, 2 Heat, 2 Cool and 1 Speed Fan relay outputs, 3 Part Construction Display, Relay Box and Detector, On/Off, Timeclock, Timer and Setpoint Adjustment via Wall Plate, no Battery Backup</p>
	<p>M2K02 (DS 9.02)</p>	<p>Micro2000 Controller with 7 Day/4 Event Timeclock, 2 Heat, 2 Cool and 1 Speed Fan Relay Outputs, Condenser Water Pump Interlock, 3 Part Construction Display, Relay Box and Detector, On/Off, Timeclock, Timer and Setpoint Adjustment via Wall Plate, no Battery Backup</p>
	<p>M2K03 (DS 9.03)</p>	<p>Micro2000 Controller with 365 Day Timeclock, 2 Heat, 2 Cool and 1 Speed Fan Relay Outputs, 3 Part Construction Display, Relay Box and Detector, On/Off, Timeclock, Timer and Setpoint Adjustment via Wall Plate, with Battery Backup</p>
	<p>M2K04 (DS 9.04)</p>	<p>Micro2000 Controller with 365 Day Timeclock, 2 Heat, 2 Cool and 1 Speed Fan Relay Outputs, with Pump Interlock, 3 Part Construction Display, Relay Box and Detector, On/Off, Timeclock, Timer and Setpoint Adjustment via Wall Plate, with Battery Backup.</p>
	<p>M2K05 (DS 9.05)</p>	<p>Micro2000 Controller with 7 Day/4 Event Timeclock, 1 Heat, 1 Cool, 3 Speed Fan and 2 Zone relay outputs, 3 Part Construction Display, Relay Box and Detector, On/Off, Timeclock, Timer and Setpoint Adjustment via Wall Plate, no Battery Backup</p>
	<p>M2K08 (DS 9.08)</p>	<p>Micro2000 Controller with 7 Day/4 Event Timeclock, 1 Heat, 1 Cool and 3 Speed Fan relay outputs, with Pump Interlock, 3 Part Construction Display, Relay Box and Detector, On/Off, Timeclock, Timer and Setpoint Adjustment via Wall Plate, no Battery Backup</p>
	<p>M2K011 (DS 9.11)</p>	<p>Micro2000 Controller with 1 Heat, 1 Cool and 3 Speed Fan Relay Outputs, with selectable Pump Interlock, 3 Part Construction Display, Relay Box and Detector, On/Off, Timeclock, Timer and Setpoint Adjustment via wall plate, no Time Clock</p>
	<p>M2KPI (DS 9.19)</p>	<p>Micro2000 Pump Interlock Module, for use with the Micro2000 product range</p>

- Note:**
1. There are many additional versions of the Micro2000 made for specific applications
 2. Comes with Thermistor Detector; refer to page 1
 3. Confirm if the battery backup is required for clock functions when selecting


MicroChill Controller

<p>MicroChill Controller</p> 	<p>MCL01 (DS 9.20)</p>	<p>Coldroom or Freezer Controller with 1 Defrost, 1 Light, 1 Alarm, 1 Buzzer, 1 Cool and 1 Fan Relay Outputs, with selectable Cold or Freezer function, 3 Part Construction Display, Relay Box and Detector, On/Off, Defrost, Timer and Setpoint Adjustment via Wall Plate, no Timeclock</p> <p>Room Temp and Coil Temp option, Defrost Logging, Light Control, Trapped Person Alarm</p>
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Note: Uses Sen Series Detector; refer to page 1

Section 3 – Controlled Output Devices


Actuator Staging Relay

Actuator Staging Relays 	IAR4012 (DS 3.01)	Actuator Package Relay DIN Mounted with 2 Floating Triac Outputs and 2 Relay Outputs
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Package Relay

Package Relays 	IPR4001 (DS 3.11)	Package Relay DIN Mounted 1 Stage Fixed On/Off 0-10VDC Input
	IPR4002 (DS 3.11)	Package Relay DIN Mounted 2 Stage Fixed On/Off 0-10VDC Input
	IPR4003 (DS 3.11)	Package Relay DIN Mounted 3 Stage Fixed On/Off 0-10VDC Input
	IPR4004 (DS 3.11)	Package Relay DIN Mounted 4 Stage Fixed On/Of 0-10VDC Input
	IPR4005 (DS 3.11)	Package Relay DIN Mounted 5 Stage Fixed On/Off 0-10VDC Input

Staging Relay


Staging Relays 	ISR4002 (DS 3.21)	Staging Relay DIN Mounted 2 Stage Adjustable On/Off
	ISR4004 (DS 3.21)	Staging Relay DIN Mounted 4 Stage Adjustable On/Off
	ISR4202 (DS 3.22)	Delayed Staging Relay DIN Mounted 2 Stage Adjustable On/Off
	ISR4204 (DS 3.22)	Delayed Staging Relay DIN Mounted 4 Stage Adjustable On/Off

Relay Module




Relay Modules 	IRM5004 (DS 3.13)	Relay Module DIN Mounted 4 Channel 24VAC
	IRM5008 (DS 3.13)	Relay Module DIN Mounted 8 Channel 24VAC

Section 3 – Controlled Output Devices (continued)

Heat Valve


Heat Valves 	IHV4002 (DS 3.31)	Heat Valve DIN Mounted 2 Input 2 Output 24VAC
	IHV4004 (DS 3.31)	Heat Valve DIN Mounted 4 Input 4 Output 24VAC
	IHV4212 (DS 3.32)	Heat Valve DIN Mounted 1 Input 2 Output 24VAC
	IHV4214 (DS 3.32)	Heat Valve DIN Mounted 1 Input 4 Output 24VAC
	IHV4224 (DS 3.32)	Heat Valve DIN Mounted 2 Input 4 Output 24VAC

Displays


Panel Mount Displays (Green LED) 	IDD5001 (DS 4.41)	Display Panel Mount 1 Voltage Input 0-100 Display
	IDD5003 (DS 4.41)	Display Panel Mount 1 Voltage Input -50.0 to 50.0 Display
	IDD5004 (DS 4.41)	Display Panel Mount 1 Voltage Input 0-1000 Display
Wall Mount Displays 	IDW5001 (DS 4.21)	Display Wall Mount 1 Voltage Input 0-100 Display
	IDW5002 (DS 4.21)	Display Wall Mount 2 Voltage Inputs Push Button Selectable 0-100 Display
	IDW5212 (DS 4.22)	Display and Adjuster 2 Voltage Input Push Button Selectable 0-100 Display, One 0-10 Volt Output (use with ITC/IPC controllers)
	IDW5312 (DS 4.22)	Display and Adjuster 2 Voltage Input Push Button Selectable 0-100 Display, One 2K ohm Output (use with IMC controllers)
DIN Rail Mount Displays 	IDS5001 (DS 4.61)	Digital SWB Mount 1 Voltage Input 0-100 Display
	IDS5012 (DS 4.61)	Display SWB Mount 12 Voltage Inputs 0-100 Display Selectable Input
	IDS5212 (DS 4.62)	Display SWB Mount 12 ITn Detector Inputs 0-100 Display Selectable Input


Section 3 – Controlled Output Devices (continued)


Displays (continued)

Signal Adaptors 	IMF4000 (DS 5.11)	Multifunction Module
	IMF4202 (DS 5.11)	Multifunction Module 2 Relay Adjustable On/Off
	IMF4304 (DS 5.11)	Multifunction Module 4 Stage Fixed On/Off

Fault Relay

Signal Selectors (Average) (Low) (High) 	IAS4007 (DS 5.21)	Average Signal Selector 7 Inputs
	IAS4014 (DS 5.21)	Average Signal Selector 14 Inputs
	ILS4007 (DS 5.41)	Low Signal Selector 7 Input
	ILS4014 (DS 5.41)	Low Signal Selector 14 Input
	IHS4007 (DS 5.31)	High Signal Selector 7 Input
	IHS4014 (DS 5.31)	High Signal Selector 14 Input
	IHS4207 (DS 5.32)	High Signal Selector 7 Input And 1 Relay Output

Signal Modifiers 	ISM4004 (DS 5.51)	Signal Modifier 4 Input 4 Output
	ISM4008 (DS 5.51)	Signal Modifier 8 Input 8 Output
	ISM4204 (DS 5.51)	Signal Modifier 4 Input 4 Output R/A
	ISM4208 (DS 5.51)	Signal Modifier 8 Input 8 Output R/A

PT100 Converters Voltage 	IRC4004 (DS 5.61)	Converter PT100 to 0-10VDC 4 Chnl Range -100°C to 600°C
	IRC4104 (DS 5.61)	Converter PT100 to 0-10VDC 4 Chnl Range -100°C to 0°C
	IRC4204 (DS 5.61)	Converter PT100 to 0-10VDC 4 Chnl Range -50°C to 50°C
	IRC4304 (DS 5.61)	Converter PT100 to 0-10VDC 4 Chnl Range 0°C to 250°C





Section 3 – Controlled Output Devices (continued)





Miscellaneous Products

PT100 Converters 4-20mA 	IRC5004 (DS 5.61)	Converter PT100 to 4-20mA 4 Chnl Range -100°C to 600°C
	IRC5104 (DS 5.61)	Converter PT100 to 4-20mA 4 Chnl Range -100°C to 0°C
	IRC5204 (DS 5.61)	Converter PT100 to 4-20mA 4 Chnl Range -50°C to 50°C
	IRC5304 (DS 5.61)	Converter PT100 to 4-20mA 4 Chnl Range 0°C to 250°C
Power Supplies 	IPS4200 (DS 8.13)	Power Supply Adjustable 0-24VDC 0.5 AMP
Remote Adjusters 	IRA4001 (DS 8.21)	Remote Adjuster To Suit ITC/IPC
	IRA4002 (DS 8.21)	Remote Adjuster To Suit IMC
	IRA4003 (DS 8.21)	Remote Adjuster To Suit IMT 5 Series
Manual Positioners 	IMP4001 (DS 8.31)	Manual Positioner 0-10VDC Output
	IMP4002 (DS 8.31)	Manual Positioner 0-10VDC Output, Over Ride

Section 4 – Digital Products


Maxim Hardware

<p>MiniMax Controller</p> 	<p>MM02 (DS 10.04)</p>	<p>The Innotech MiniMax Controller is a state of the art digital processing system that has the capability of controlling various types of industrial, commercial and domestic systems. The MiniMax can operate as a standalone device, using its own universal I/O and TRIAC outputs to receive information and control external equipment, or as part of a network of Innotech devices, where MM01 interfaces with the Primary Network, and MM02 interfaces with the Sub System Network.</p>
<p>VAVMax</p> 	<p>VM01 (DS 22.07)</p>	<p>The Innotech VAVMax Controller is a state of the art digital Variable Air Volume Control System combined with additional digital process control functions, providing the capability of controlling various types of industrial, commercial and domestic systems. The VAVMax can operate as a standalone device, using its own Universal Inputs to read sensors, and Universal and TRIAC outputs to control external equipment, or as part of a network of Innotech devices that support NetComms or on a Sub System Network handled by the Innotech Sub System Gateway.</p>
<p>Sub System Gateway</p> 	<p>IG01 (DS 26.01)</p>	<p>The Sub System Gateway (SSG) is a state of the art Communication System, providing the ability to add Sub System Networks of Innotech controllers with a single channel of communications to Innotech Net and Global Networks. The SSG also provides logging and a battery-backed real time clock for devices on its network. Each device comes preconfigured with a standard SSG configuration containing weekly and yearly schedules optimum start routines.</p>
<p>Commissioning Tool</p> 	<p>CT01 (DS 13.04)</p>	<p>The Commissioning Tool, Sub System Network is a device that allows the user to configure the controllers on a Sub System Network by providing access to the controller's Human Machine Interface (HMI). The Commissioning Tool can directly connect to most controllers that are setup for a Sub System network or to the network itself using the provided adapter cable. When connected to a Sub System network, the Commissioning Tool can be used to search for present controllers. A user may then use the Commissioning Tool to log on to any of the available controllers.</p> <p>The Commissioning Tool is designed for easy access to Sub System Network controllers that are located in remote or inaccessible areas.</p>


<p>MiniMax</p> 	<p>MM01 (DS 10.04)</p>	<p>MiniMax Controller DIN Mount with 7 Universal Input or Outputs (U/I/O) and 4 Triac Outputs, no on board Logging</p>
<p>Maxim I</p> 	<p>MAX1LD (DS 10.01)</p>	<p>Maxim I Controller DIN Mount with 6 Universal Inputs (U/I), 6 Digital Outputs (D/O), 4 Analogue Outputs (A/O), 1 RS232 Comms Port, 512K of Logging with Display</p>
	<p>MAX1LN (DS 10.01)</p>	<p>Maxim I Controller DIN Mount with 6 Universal Inputs (U/I), 6 Digital Outputs (D/O), 4 Analogue Outputs (A/O), 1 RS232 Comms Port, 512K of Logging with no Display</p>
<p>Maxim II</p> 	<p>MAX2LD (DS 10.02)</p>	<p>Maxim II Controller DIN Mount with 6 Universal Inputs (U/I), 6 Digital Outputs (D/O), 4 Analogue Outputs (A/O), 2 RS485 Comms Port, 512K of Logging with Display</p>
	<p>MAX2LN (DS 10.02)</p>	<p>Maxim II Controller DIN Mount with 6 Universal Inputs (U/I), 6 Digital Outputs (D/O), 4 Analogue Outputs (A/O), 2 RS485 Comms Port, 512K of Logging with no Display</p>
<p>Maxim III</p> 	<p>MAX3ELD (DS 10.03)</p>	<p>Maxim III Controller DIN Mount with 20 Universal Inputs (U/I), 12 Digital Outputs (D/O), 8 Analogue Outputs (A/O), 2 RS485 Comms Ports and Ethernet Port, 2 Mb of Logging with Display</p>
	<p>MAX3ELN (DS 10.03)</p>	<p>Maxim III Controller DIN Mount with 20 Universal Inputs (U/I), 12 Digital Outputs (D/O), 8 Analogue Outputs (A/O), 2 RS485 Comms Ports and Ethernet Port, 2 Mb of Logging with no Display</p>
	<p>MAX3NLD (DS 10.03)</p>	<p>Maxim III Controller DIN Mount with 20 Universal Inputs (U/I), 12 Digital Outputs (D/O), 8 Analogue Outputs (A/O), 2 RS485 Comms Ports, 2 Mb of Logging with Display</p>
	<p>MAX3NLN (DS 10.03)</p>	<p>Maxim III Controller DIN Mount with 20 Universal Inputs (U/I), 12 Digital Outputs (D/O), 8 Analogue Outputs (A/O), 2 RS485 Comms Ports, 2 Mb of Logging with no Display</p>


Section 4 – Digital Products (continued)

Genesis Hardware




<p>Genesis II</p> 	<p>GENIIELD (DS 12.04) GENIINLD</p>	<p>Direct Digital Control Version 5 DIN Mount with 8 Digital Inputs (D/I), 8 Analogue Inputs (A/I), 12 Digital Outputs (D/O), 16 Analogue Outputs (A/O), 2 RS485 Comms Ports, 8 Mb of Logging with Display and Ethernet port.</p> <p>Direct Digital Control Version 5 DIN Mount with 8 Digital Inputs (D/I), 8 Analogue Inputs (A/I), 12 Digital Outputs (D/O), 16 Analogue Outputs (A/O), 2 RS485 Comms Ports, 8 Mb of Logging with Display.</p>
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Note: Configurable to uses either Sen or ITn Series Sensors; refer to pages 1 and 2

<p>Mid Point Controller</p> 	<p>MPCIILN (DS 12.03)</p>	<p>Mid Points Controller DIN Mount with 4 Digital Inputs (D/I), 4 Analogue Inputs (A/I), 8 Digital Outputs (D/O), 4 Analogue Outputs (A/O), 2 RS485 Comms Ports, 2 Mb of Logging with no Display</p>
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<p>Gateway - Dynalite</p> 	<p>IGO2 (DS 26.02)</p>	<p>The Innotech to Dynalite Gateway is a hardware gateway that maintains a bridge between the two networks.</p> <p>This unit requires no direct configuration.</p> <p>The device simply requires power and connection between the two networks, all configuration and programming is taken care of in the Innotech controllers and the Dynalite® devices.</p>
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Genesis Remote Expansion Modules

	GENII RMI (DS 15.01)	Remote Module Interface
	GENII WMI (DS 15.14)	GENII Wireless Module Interface, for use with SENR series
	GENII DI (DS 15.04)	Digital Input Remote Expansion Module
	GENII IDI (DS 15.06)	Isolated Digital Input Remote Expansion Module
	GENII DO (DS 15.05)	Digital Output Remote Expansion Module
	GENII AI (DS 15.02)	Analogue Input Remote Expansion Module
	GENII AO (DS 15.03)	Analogue Output Remote Expansion Module
	GENII PI (DS 15.07)	Pulse Input Remote Expansion Module
	GENII MP405 (DS 15.13)	Multipoint Remote Expansion Module, 1 Temperature Input, 4 Digital Inputs and 5 Digital Outputs 24v
	GENII MP414 (DS 15.13)	Multipoint Remote Expansion Module, 1 Temperature Input, 4 Digital Inputs, 4 Digital Outputs and 1 Analogue Output 24v
	GENII MP423 (DS 15.13)	Multipoint Remote Expansion Module, 1 Temperature Input, 4 Digital Inputs, 3 Digital Outputs and 2 Analogue Output 24v
	GENII MP432 (DS 15.13)	Multipoint Remote Expansion Module, 1 Temperature Input, 4 Digital Inputs, 2 Digital Outputs and 3 Analogue Output 24v
	GENII CS (DS 15.08)	Control Station Remote Expansion Module, On/Off, Setpoint Adjustment via Wall Plate.
	GENII CSAH (DS 15.09)	Control Station After Hours Remote Expansion Module, Pulsed On/Off, Setpoint Adjustment via Wall Plate
	GENII CSFAH (DS 15.10)	Control Station Remote Expansion Module with 3 Speed Fan, Pulsed On/Off, Fan Speed and Setpoint Adjustment via Wall Plate
	GENII MZS (DS 15.11)	Multi Zone Control Station Remote Expansion Module, On/Off, Zone Selection and Setpoint Adjustment via Wall Plate
	GENII MZSAH (DS 15.12)	Multi Zone Control Station Remote Expansion Module with After Hours, Pulsed On/Off, Zone Selection and Setpoint Adjustment via Wall Plate


Section 4 – Digital Products (continued)

Maxim Software

	MAXPROGRAMMER (DS 22.01)	Maxim Programmer Kit Contains:- Maxim Config – Configuration Software Maxim Xtract – Logged Data Extraction Software Maxim Simulator – Maxim Simulator Software iComm – Innotech Comm's Server Software
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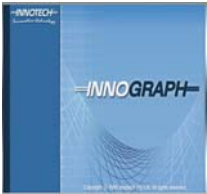


Note: this software is available for download from the Innotech web site

Genesis Software

	GEN2Config (DS 21.01)	Genesis Configuration Software
	GEN2Xtract (DS 21.03)	Genesis Extract Software
	GEN2Mon (DS 21.02)	Genesis Monitoring Software
	GEN2Simulator (DS 23.11)	Genesis Simulator Software
	GENV (DS 21.05)	Virtual Genesis with no I/O, can support REM's and expanded processing for complex processing






Note: this software is available in packages

Common Software

	Innograph (DS 23.08)	Graphing Software Innotech Graphing tool for display, formatting and printing of extracted historical logged data.
	Supervisor (DS 23.02)	Supervising Software Simple to use client interface for monitoring of real time values and user adjustment of setpoints, times and schedules.
	eServer (DS 23.06)	eServer is a web-based Magellan Explorer solution that allows remote PC's to display a Magellan Explorer interface from within their web-browser while accessing information on a remote PC. In conjunction with a client-side downloaded ActiveX control plug-in, eServer allows remote clients using a web browser to download and display frames of a Magellan project without needing a local copy of that project.

Section 4 – Digital Products (continued)

Common Software (continued)

	<p>Supervisor Plus (DS 23.03)</p>	<p>Supervising Software</p> <p>Simple to use client interface for monitoring of real time values and user adjustment of setpoints, times and schedules. This package has the added feature of one static picture per watch page and the ability to place the watches (dynamic values) anywhere on the page.</p>
	<p>Magellan (DS 23.07)</p>	<p>Magellan is an event-driven, object oriented real-time Supervisory Control and Data Acquisition package. It provides a simple, intuitive mechanism to effortlessly design either trivial or sophisticated supervisory or control programs using a drag-and-drop approach. Magellan eliminates the need to sift through hundreds of meaningless device addresses or protocol descriptions by displaying a graphical representation of all of the data points available in your network of Controllers. Using a drag-and-drop approach, data values can be displayed in a variety of ways leaving the designer more time to construct a useful and practical interface for the end-user.</p>
	<p>Alert (DS 23.04)</p>	<p>Innotech Alert Software is a utility that reports on alarms generated by Genesis II Digital Controllers. A Genesis II MPI (Modem/Printer Interface) is required to capture the alarms and forward the details via modem to a PC running this utility. Once an alarm has been received, Alert can immediately notify the PC user through its pop-up and sound facilities, or at a later time through its logging facilities.</p>
	<p>Auto Start (DS 23.05)</p>	<p>Innotech AutoStart is an automatic program launching utility specifically designed for use with GenIIXtract and MAXTract software. It allows any number of Windows batch programs to be automatically started at regular time intervals. It is aimed at users who wish to regularly extract log data from Genesis II or Maxim II controllers. AutoStart is a user-oriented product. A simple Graphical User Interface generates the command line parameters required by GenIIXtract and MAXTract.</p>
	<p>EasyBill (DS 23.10)</p>	<p>EasyBill is an automatic charging utility program for use with Innotech's digital control devices, the Genesis II and the MAXIM series. Using EasyBill in conjunction with Innotech controllers, a plant administrator is able to analyse plant usage and automatically calculate charges for that usage.</p>

Note: Upgrades are available for Innotech Software

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Section 4 – Digital Products (continued)


Software Packages

The following kits are made up of multiple software packages. The table below list the components of each kit.




GEN2WORKS	Gen2Config Gen2Mon Gen2Sim Gen2 Xtract iComm Innograph Supervisor Easybill Alert
GEN2WORKS PLUS	Gen2Config Gen2Mon Gen2Sim Gen2 Xtract iComm Innograph Supervisor Plus Easybill Alert
GEN2USER KIT	Gen2 Xtract iComm Innograph Supervisor
GEN2USER PLUS	Gen2 Xtract iComm Innograph Supervisor Plus
GEN2PROGRAMMER	Gen2Config Gen2Mon Gen2 Xtract iComm Innograph

Section 4 – Digital Products (continued)

Miscellaneous Hardware


	CONV232 (DS 17.04)	Single Channel RS232 To RS485 Converter NT
	CONVUSB (DS 17.05)	Single Channel USB to RS485 Converter
	CONVE (DS 17.02)	Single Channel TCP/IP to RS485 Converter

Network Displays

	GENII Viewport (DS 13.02)	Viewport Human Machine Interface for Genesis and Maxim Networks
	Miniport (DS 13.03)	Miniport Human Machine Interface for Maxim Networks
	ICS01 (DS 13.01)	Innotech Network Control Station with After Hours Pulsed On/Off and Setpoint Adjustment via Wall Plate
	ICS02 (DS 13.01)	Innotech Network Control Station with 3 Speed Fan, Pulsed On/Off, Fan Speed and Setpoint Adjustment via Wall Plate

Section 5 – Miscellaneous Products

Data Logger

	ITL (DS 25.01)	<p>Innotech Temperature Logger. Single channel temperature data logger with 512K of memory. Uses a USB port to download data, supplied with the cable.</p> <p>Software is available for download from http://www.innotech.com.au/files/LogMate.exe</p>
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