DCP200 Digital Controller Programmer Specification

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Features

- ¼ DIN Format
- Graphical / text LCD Display (red/green)
- Set Point Profiling capability
- Datalogging option (data, alarms & events)
- Multi-language capability
- Configurable user-menu structure
- Modbus RS485 and Modbus TCP Ethernet supported
- USB option
- CE, UL and cUL

DCP200 Digital Controller Programmer

HMI Display

- Graphic display - Easy to read backlit LCD display With text capabilities (160 x 80 pixels)
- Dual colour screen backlight (green / red). Colour can be set to change on alarm.
- Multi-language capability (English, French, German, Italian, Spanish, Russian)
- Custom splash-screen on startup (bitmap file)
- Alarm status view
- On screen trend view
- LEDs to indicate heat, cool, autotuning and alarm

User operation and control

- Easy setup wizard for quick configuration. (inputs, alarms, outputs, comms & real-time clock)
- Universal input for thermocouple, RTDs and linear DC process signals (mA, mV or V)
- Flexible output options, relay, ssd driver, triac & Linear DC (9 max). Select to precisely match the process.
- Digital input (2 max) for setpoint selection, profile control, datalogging start/stop, control output enable/disable or auto/manual control
- Configurable menus (via BlueControl software) USB port for local upload/download of configuration files & download logged data
- Password protected supervisor and configuration mode
- Pre-tune and self-tune function
- Master-slave configuration for multi-zone applications

Profiling function

- 255 segments to allocate freely in up to 64 programs
- Ramp, dwell, hold, loop or jump to other profile
- User defined text profile names
- Delayed or real-time day/time profile start
- Up to 5 event outputs

Datalogging Function (option)

- Historic process data for analysis or reporting
- Export data files via front USB or comms
- Log process values, setpoints or alarms
- (including min, max & ave)
- Run-then-stop or FIFO (first in – first out) buffer recording
- Logging intervals from 1s to 30m

Description

The DCP200 with a graphic/text LCD display is an affordable temperature and process controller with advanced functionality including profiling and datalogging options. Designed to improve user efficiency many features are integrated to reduce commissioning time, simplify operation and minimise maintenance downtime.

The LCD screen on DCP200 displays real-text messages, removing ambiguity that can be caused by mnemonic codes on LED displays used in many products. Information is displayed in a logical format to be easily understood, hence reducing the risk of errors.

User screens are only displayed as each function is enabled; creating an optimised menu structure that is simpler to navigate. Access to specific settings and parameters can also be restricted by assigning them to password protected supervisor and configuration parameter access levels.

The process of configuring the DCP200 is simplified as a setup wizard runs on first power-up. The user is guided step-by-step through the common parameter settings to quickly program the unit. These settings can be saved on a memory stick via the USB port and can be used for reconfiguration or to program other DCP200 units. BlueControl software can be used for on and off-line configuration.

Flexible input and output option boards mean that the controller can be selected to precisely match an application. Universal process input (Thermocouple, PT100 & linear DC), digital inputs, remote setpoint inputs, RS485 and Ethernet (Modbus TCP) comms and up to nine outputs (relay, SSR driver, triac, linear DC and 24V transmitter PSU) are all available.

The profiling function supports 255 segments for use in up to 64 profiles; segments supported are ramp, dwell, hold, loop, jump to profile. Profile control is possible from the controller, remote input or timed via the integral real time clock.

There is an increasing requirement to log process data for quality control purposes. The optional datalogging feature is a low cost method of recording historical data for exporting to a .CSV file.

Specifications

PROCESS INPUT			
Parameter	**Description**		
Sampling Rate:	10 per second.		
Resolution:	16 bits. Always four times better than display resolution.		
Impedance:	>10MΩ resistive, except DC mA (5Ω) and V (47kΩ).		
Temperature stability:	Error <0.01% of span per °C change in ambient temperature.		
Supply Variation:	Supply voltage influence negligible within supply limits.		
Humidity Influence:	Negligible if non-condensing.		
Process Display:	Displays up to 5% over and 5% under span limits.		
Process Variable Input Offset:	Reading adjustable ± Controller Span. +ve values added to Process Variable, -ve values subtracted from Process Variable		
Sensor Break Detection:	Thermocouple & RTD - Control goes to pre-set power value. High & Sensor Break alarms activate. Linear (4 to 20mA, 2 to 10V and 1 to 5V only) - Control goes to pre-set power value. Low & Sensor Break alarms activate.		
Isolation:	Isolated from all outputs (except SSR driver) at 240V AC.		
Supported Thermocouple Types & Ranges:	**Type**	**Range °C**	**Range °F**	
	B	+100 to 1824°C	+211 to 3315°F	
	C	0 to 2320°C	32 to 4208°F	
	D	0 to 2315°C	0 to 4199°F	
	E	-240 to 1000°C	-400 to 1832°F	
	J	-200 to 1200°C	-328 to 2192°F	*
	K	-240 to 1373°C	-400 to 2503°F	*
	L	0 to 762°C	32 to 1402°F	*
	N	0 to 1399°C	32 to 2551°F	*
	PtRh 20%:40%	0 to 1850°C	32 to 3362°F	
	R	0 to 1759°C	32 to 3198°F	
	S	0 to 1762°C	32 to 3204°F	
	T	-240 to 400°C	-400 to 752°F	*
	Optional decimal place can be displayed up to 999.9°C/F			

PROCESS INPUT

Parameter	Description
Thermocouple Calibration:	$\pm0.1\%$ of full range, ±1LSD ($\pm1°$C for internal CJC if enabled). Linearization better than better $\pm0.2°$C (±0.05 typical) on ranges marked * in the table above. Linearization for other ranges is better than better than $\pm0.5°$C. BS4937, NBS125 & IEC584

Supported RTD Types & Ranges:	Type	Range °C	Range °F
	3-Wire PT100	-199 to 800°C	-328 to 1472°F
	NI120	-80 to 240°C	-112 to 464°F
	Optional decimal place can be displayed up to 999.9°C/F		

Parameter	Description
RTD Calibration:	0.1% of full range, ±1LSD. Linearization better than $\pm0.2°$C (±0.05 typical). PT100 input to BS1904 & DIN43760 ($0.00385\Omega/\Omega/°$C).
RTD Excitation:	Sensor current 150µA $\pm10\%$.
Lead Resistance:	<0.5% of span error for max 50Ω per lead, balanced.

Supported Linear Types & Ranges:	Type	Range	Offset Range
	mA DC	0 to 20mA DC	4 to 20mA DC
	mV DC	0 to 50mV DC	10 to 50mV DC
	V DC	0 to 5V DC	1 to 5V DC
	V DC	0 to 10V DC	2 to 10V DC
	Scalable from -9999 to 10000. Decimal point selectable from 0 to 3 places, but limited to 5 display digits (eg. 9999.9)		

Parameter	Description
DC Calibration:	$\pm0.1\%$ of full range, ±1LSD.
DC Input Multi-Point Linearization:	Up to 15 scaling values can be defined anywhere between 0.1 and 100% of input.

AUXILIARY INPUTS (Optional)

Parameter	Description		
Supported Input Types & Ranges:	Type	Slot A Ranges	Slot B Ranges
	mA DC	0 to 20, 4 to 20	0 to 20, 4 to 20
	mV DC		0 to 50, 10 to 50, 0 to 100
	V DC	0 to 5, 1 to 5, 0 to 10, 2 to 10	0 to 5, 1 to 5, 0 to 10, 2 to 10
	Potentiometer		>2000Ω

Parameter	Description
Accuracy:	$\pm0.25\%$ of input range ±1 LSD.
Sampling Rate:	4 per second.
Resolution:	16 bits.
Impedance:	>10MΩ resistive, except DC mA (10Ω) and V (47kΩ).
Sensor Break Detection:	4 to 20mA, 2 to 10V and 1 to 5V ranges only. Control goes to pre-set power value if Aux Input is the active setpoint source.
Isolation:	Reinforced safety isolation from outputs and inputs (except to Digital Input B).
Auxiliary Input Scaling:	Scalable as Remote Setpoint (RSP) input between –1999 and 9999, but constrained within setpoint limits.

DIGITAL INPUTS (Optional)

Parameter	Description		
Volt-free contacts (or TTL):	Open contacts (>5000Ωor 2 to 24VDC signal = Logic High. Closed contacts (<50Ω or -0.6 to +0.8VDC signal = Logic Low.		
Isolation:	Reinforced safety isolation from inputs and other outputs.		
Digital Input Sensitivity:	Edge Sensitive. Requires High-Low or Low-High transition to change function. Response within <0.25 second.		
Selectable Digital Input Functions:	Function	Logic High	Logic Low
	Internal Setpoint Select	Local SP1	Alternate SP
	Auto/Manual Control Select	Automatic	Manual Mode
	Control Outputs	Enabled	Disabled

OUTPUT (Options)

Parameter	Description
Single Relay	
Type & Rating:	Single pole double throw (SPDT); 2A resistive at 120/240VAC.
Lifetime:	>500,000 operations at rated voltage/current.
Isolation:	Reinforced safety isolation from inputs and other outputs.
Dual Relay	
Type & Rating:	Single pole single throw (SPST), 2A resistive at 120/240VAC. Dual relay modules have shared common.
Lifetime:	>200,000 operations at rated voltage/current.
Isolation:	Reinforced safety isolation from inputs and other outputs.
Quad Relay	
Type & Rating:	Single pole single throw (SPST), 2A resistive at 120/240VAC. Dual relay modules have shared common.
Lifetime:	>500,000 operations at rated voltage/current.
Isolation:	Reinforced safety isolation from inputs and other outputs.
SSR Driver	
Drive Capability:	SSR driver voltage >10V into 500Ω minimum.
Isolation:	Not isolated from the universal input, Ethernet communications or other SSR driver outputs.
Triac	
Operating Voltage:	20 to 280Vrms (47 to 63Hz)
Current Rating:	0.01 to 1A (full cycle rms on-state @ 25°C); de-rates linearly above 40°C to 0.5A @ 80°C.
Isolation:	Reinforced safety isolation from inputs and other outputs.
Linear DC	
Ranges	0 to 5, 0 to 10, 1-5, 2 to 10V & 0 to 20, 4 to 20mA (selectable) with 2% over/under-drive when used for control outputs.
Resolution:	8 bits in 250mS (10 bits in 1s typical, >10 bits in >1s typical).
Accuracy:	$\pm0.25\%$ of range, (mA @ 250Ω, V @ 2kΩ). Degrades linearly to $\pm0.5\%$ for increasing burden (to specification limits).
Isolation:	Reinforced safety isolation from inputs and other outputs.
Transmitter PSU	
Power Rating:	24V nominal (19 to 28V DC) into 910Ω minimum resistance. (Option to use DC Linear output as 0-10V stabilised PSU).
Isolation:	Reinforced safety isolation from inputs and other outputs.

COMMUNICATIONS (Optional)

Parameter	Description
PC Configuration	
Connection:	RS232 via PC Configurator Cable to RJ11 socket under case.
Isolation:	Not isolated from input or SSR Driver outputs. For bench configuration only.
RS485	
Connection:	Locates in Option Slot A. Connection via rear terminals (refer to wiring diagram).
Protocol:	Modbus RTU.
Slave/Master Mode	Slave address range 1-255 or Setpoint master mode.
Supported Speeds:	4800, 9600, 19200, 38400, 57600 or 115200 bps.
Data Type:	8 data bits and 1 stop bit. Odd, even or no parity.
Isolation:	240V reinforced safety isolation from all inputs and outputs.
Ethernet	
Connection:	Locates in Option Slot A. Connection via RJ45 connector on top of case.
Protocol:	Modbus TCP. Slave only.
Supported Speed:	10BaseT or 100BaseT
Isolation:	240 V reinforced safety isolation from the supply, inputs and outputs (except SSR Drivers).

LOOP CONTROL

Parameter	Description
Tuning Types:	Pre-Tune, Auto Pre-Tune, Self-Tune or Manual Tuning.
Proportional Bands:	Primary & Secondary (e.g. Heat & Cool) 0.5% to 999.9% of input span in 0.1% increments, or On/Off control.
Automatic Reset:	Integral Time Constant, 1s to 99min 59s and OFF
Rate:	Derivative Time Constant, 1s to 99 min 59s and OFF
Manual Reset:	Bias 0 to 100% (-100% to +100% Primary & Secondary).
Deadband/ Overlap:	−20% to +20% of Primary + Secondary Proportional Band.
ON/OFF Differential:	0.1% to 10.0% of input span
Auto/Manual Control:	Selectable with "bumpless" transfer when switching between Automatic and Manual control.
Cycle Times:	Selectable from 0.5s to 512s.
Setpoint Ramp:	Ramp rate selectable 1 to 9999 LSDs per hour and infinite.

ALARMS

Parameter	Description
Alarm Types:	Up to 5 alarms selectable as Process High, Process Low, Band, Deviation, Rate of Signal Change (per minute), Sensor/input Break, Loop Alarm. Band and Deviation (high or low) alarm values are relative to the current setpoint value.
Alarm Hysteresis:	A deadband from 1 LSD to full span (in display units) for Process, Band or Deviation Alarms. Rate Of Change Alarm hysteresis is the shortest time (1 to 9999 secs) the rate of change must be above the threshold for the alarm activate, or fall below the threshold to deactivate. Note: If the duration is less than this time, the alarm will not activate no matter how fast the rate of rise.
Combination Alarm Outputs:	Logical OR of alarms 1 & 2, 1 to 3, 1 to 4 or 1 to 5. Logical AND of alarms 1 to 5 with Profiler Events 1 to 5.

OPERATING CONDITIONS (FOR INDOOR USE)

Parameter	Description
Temperature:	0°C to 55°C (Operating), −20°C to 80°C (Storage).
Relative Humidity:	20% to 95% non-condensing.
Supply Voltage and Power:	Mains versions: 100 to 240VAC ±10%, 50/60Hz, 20VA. Low voltage versions: 20 to 48VC 50/60Hz 15VA or 22 to 65VDC 12W.

ENVIRONMENTAL

Parameter	Description
Standards:	CE, UL, cUL.
EMI:	Complies with EN61326.
Safety Considerations:	Complies with EN61010-1 & UL61010C-1. Pollution Degree 2, Installation Category II.
Front Panel Sealing:	To IP66 (IP65 front USB connector). IP20 behind the panel.

DISPLAY

Parameter	Description
Display Type:	160 x 80 pixel, monochrome graphic LCD with a dual colour (red/green) backlight.
Display Area:	66.54mm (W) x 37.42mm (H).
Display Characters:	0 to 9, a to z, A to Z, plus ( ) - and _
Trend View:	120 of 240 data points shown in a scrollable window. Data is not retained when power turned off or if time base is changed.
Trend Data:	Any active alarm plus PV (solid) & SP (dotted) at sample time or Max/Min PV between samples (candle-stick graph).
Trend Sample Rate:	1; 2; 5; 10; 15; 30 seconds or 1; 2; 5; 10; 15; 30 minutes.

ADDITIONAL DIGITAL INPUT OPTIONS

| Parameter	Description		
Selectable Digital Input Functions:	Function	Logic High	Logic Low
	Profile Run/Hold	Hold	Run
	Hold Segment Release	Release	No Action
	Profile Abort	Abort	No Action
	Data Recorder	Stop	Start
Digital Input Sensitivity:	Edge Sensitive. Requires High-Low or Low-High transition to change function. Response within <0.25 second		

ADDITIONAL COMMUNICATIONS OPTIONS – USB

Parameter	Description
Connection:	Locates in Option Slot C. Connection via front mounted connector.
Protocol:	USB 1.1 or 2.0 compatible. Mass Storage Class.
Supply Current:	Up to 250mA.
Targeted Peripheral:	USB Memory Stick.
Isolation:	Reinforced safety isolation from all inputs and outputs.

ADDITIONAL ALARMS OPTIONS

Parameter	Description
Combination Alarm Outputs:	Logical AND of alarms 1 to 5 with Profiler Events 1 to 5.

DATA RECORDER (Optional)

| Parameter	Description
Recording Memory:	1Mb non-volatile flash memory. Data retained when power is turned off.
Recording Interval:	1; 2; 5; 10; 15; 30 seconds or 1; 2; 5; 10; 15; 30 minutes.
Recording Capacity:	Dependant on sample rate and number of values recorded. Two values can be recorded for up to 7 days at 10s intervals. More values or faster sample rates reduce the maximum duration.
RTC Battery Type:	CR 1616 3V Lithium. Clock runs for >1 year without power.
RTC accuracy	Real Time Clock error <1second per day.

PROFILER

Parameter	Description
Profile Limits	Number of profiles = 64 maximum. Total number of segments (all programs) = 255 maximum.
Loop Back	1 to 9999 loops back to specified segment.
Profile Cycling	1 to 9999 or Infinite repeats per profile.
Sequence Repeats	1 to 9999 or Infinite repeats of joined profile sequences.
Segment Types	Ramp Up/Down over time, Ramp Rate Up/Down, Step, Dwell, Hold, Join A Profile, End or Repeat Sequence Then End.
Timebase	hh:mm:ss (Hours, Minutes & Seconds).
Segment Time	Maximum segment time 99:59:59 hh:mm:ss. Use loop-back for longer segments (e.g. 24:00:00 x 100 loops = 100 days).
Ramp Rate	0.001 to 9999.9 display units per hour.
Hold Segment Release	Release With Key Press, At Time Of Day or Digital Input.
Start From	1st segment starts from current setpoint or current input value.
Delayed Start	After 0 to 99:59 (hh:mm) delay, or at specified day(s) & time.
End On	Keep Last Profile Setpoint, Use Controller Setpoint or Control Outputs Off.
Abort Action	Keep Last Profile Setpoint, Use Controller Setpoint or Control Outputs Off.
Power/signal Loss Recovery	Continue Profile, Restart Profile, Keep Last Profile Setpoint, Use Controller Setpoint or Control Outputs Off.
Auto-Hold	Hold if input >Band above and/or below SP for each segment.
Profile Control	Run, Manual Hold/Release, Abort or jump to next segment.
Segment Events	Events turn on for the duration of the segment. For End Segments, the event state persists until another profile starts, the user exits from profiler mode, or the unit is powered down.

Dimensions and installation

Weight 0.45kg
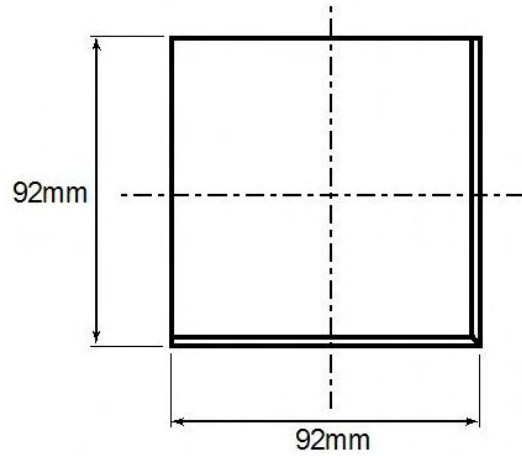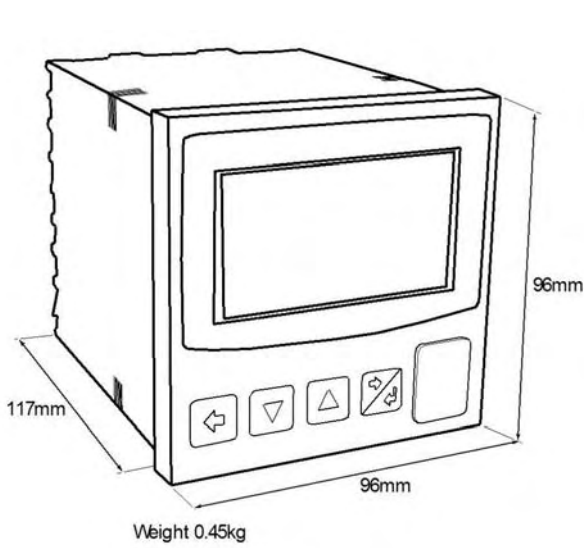
Cut-out tolerance +0.5mm, -0.0mm
Maximum panel thickness 6.0 mm

Connections
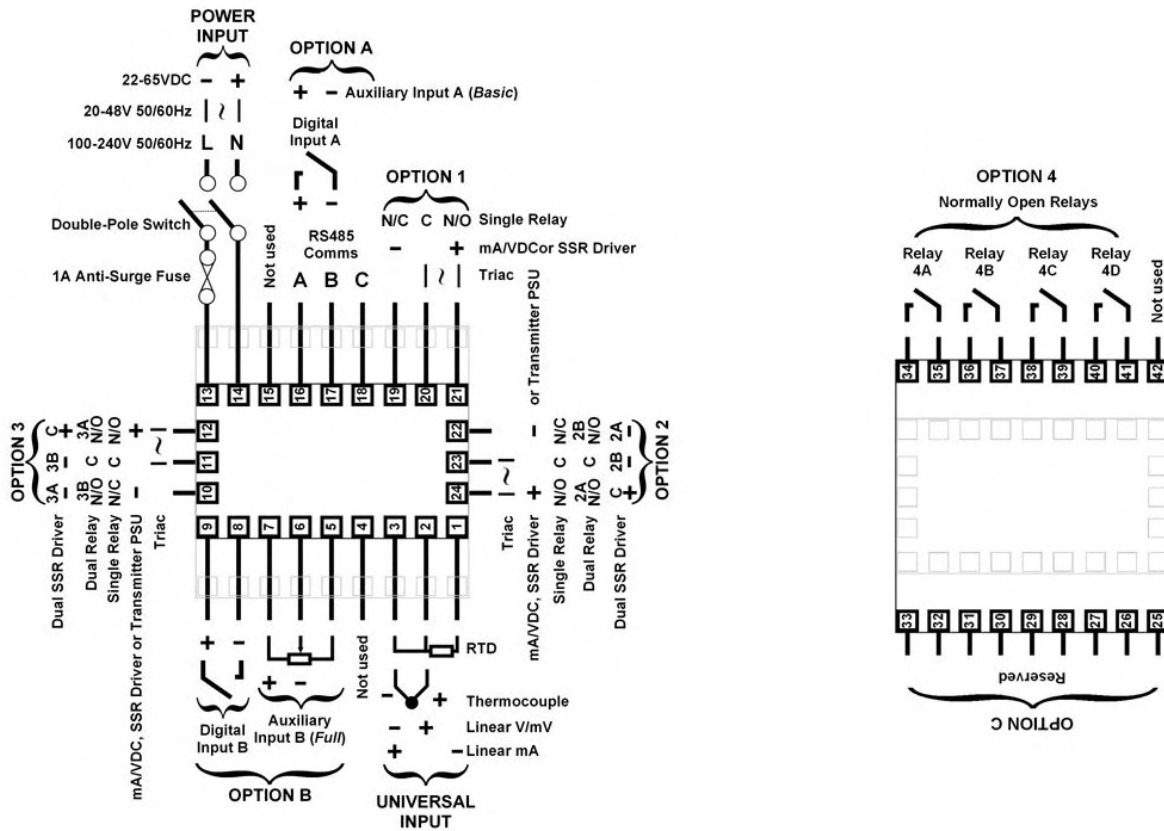
Model Selection Guide

Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection each from Table I thru V, using the column below the proper arrow.
- A dot (•) denotes unrestricted availability. A letter denotes restricted availability.

Key Number	I	II	III	IV	V	VI	VII
_ _ _ _ _ _	- _	- _	- _	- _	- _	- _ _	- _

KEY NUMBER Description	Selection	Availability		
Controller Programmer	DCP201	↓		
Controller Programmer with USB Port	DCP202		↓	
Controller Programmer w/Recording & USB Port	DCP203			↓

TABLE I - Power Supply

		Selection			
100 - 240 Vac		0	•	•	•
24 - 48 Vac or Vdc		2	•	•	•

TABLE II - Output Slot 1

		Selection			
None		0	•	•	•
Relay		1	•	•	•
DC Drive for SSR		2	•	•	•
Linear DC Output		L	•	•	•
Triac Output		8	•	•	•

TABLE III - Output Slot 2

		Selection			
None		0	•	•	•
Relay		1	•	•	•
DC Drive for SSR		2	•	•	•
Linear DC Output		L	•	•	•
Triac Output		8	•	•	•
Dual Relay Output		9	•	•	•
Dual SSR Driver Output		S	•	•	•
24Vdc Xmtr Power		T	•	•	•

TABLE IV - Output Slot 3

		Selection			
None		0	•	•	•
Relay		1	•	•	•
DC Drive for SSR		2	•	•	•
Linear DC Output		L	•	•	•
Triac Output		8	•	•	•
Dual Relay Output		9	•	•	•
Dual SSR Driver Output		S	•	•	•
24Vdc Xmtr Power		T	•	•	•

TABLE V - Output Slot 4

		Selection			
None		0	•	•	•
Four Relay Output		1	•	•	•

TABLE VI Options

		Selection			
Slot A Options	No Selection	0 _ _	•	•	•
	RS485 ASCII Serial Communications	1 _ _	•	•	•
	Digital Input (Slot A)	3 _ _	•	•	•
	Auxilary Input (Slot A)	4 _ _	•	•	•
	Ethernet	5 _ _	•	•	•
Slot B Options	None	_ 0 _	•	•	•
	Full Auxilary Input (Slot B)	_ R _	•	•	•
Future (Slot C)	No Selection	_ _ 0	•	•	•

TABLE VII

Manuals/Language	English Manual	1	•	•	•
	French Manual	2	•	•	•
	German Manual	3	•	•	•
	Italian Manual	4	•	•	•
	Spanish Manual	5	•	•	•
	Russian Manual	R	•	•	•

Contact information

For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below. Or, visit Honeywell on the World Wide Web at: **www.honeywell.com/ps**

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