RS PRO — Every part matters

RS Pro DIN Rail Controller Concise Manual

1. INSTALLATION

Installation Guidance

- Installation should only be performed by technically competent personnel.
- Standards compliance shall not be impaired when fitting into the final installation.
- It is the responsibility of the installing engineer to ensure that the configuration is safe.
- Local regulations regarding the electrical installation & safety must be observed.
- Impairment of protection will occur if the product is used in a manner not specified by the manufacturer.
- Due to the low weight of this instrument there are no special lifting or carrying considerations.
- Designed to offer a minimum of Basic Insulation only.
- Ensure that supplementary insulation suitable for Installation Category II is achieved when fully installed.
- To avoid possible hazards, accessible conductive parts of the final installation should be protectively earthed in accordance with EN61010 for Class 1 equipment.
- Output wiring should be within a Protectively Earthed cabinet.
- Sensor sheaths should be bonded to protective earth or not be accessible.
- Live parts should not be accessible without the use of a tool.
- When fitted to the final installation, an IEC/CSA APPROVED disconnecting device should be used to disconnect both LINE and NEUTRAL conductors simultaneously.
- Do not position the equipment so that it is difficult to operate the disconnecting device.
- Ventilation slots must not be covered and adequate air circulation must be allowed.
- Use conductor sizes 30-12 AWG, minimum temp rating of cables to be 80c.
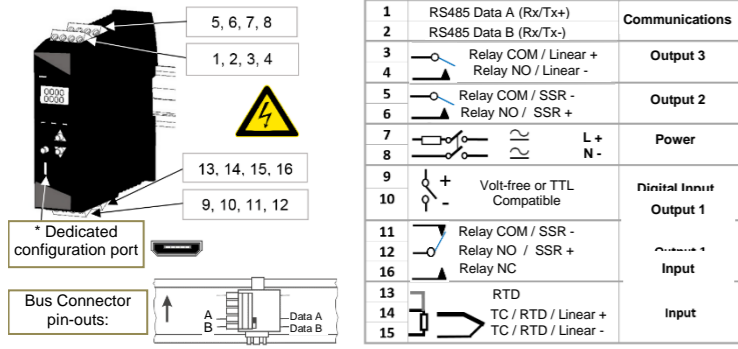
Bus Connector (optional) Mounting & Unmounting
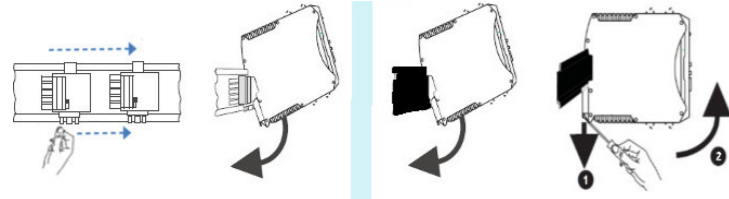
Terminal Wiring

CAUTION: Check information label on housing for correct operating voltage before connecting supply to Power Inputs.
Diagrams show all possible option combinations, check your exact product specification before connecting.

Terminal	Description	Group
1	RS485 Data A (Rx/Tx+)	Communications
2	RS485 Data B (Rx/Tx-)	
3	Relay COM / Linear +	Output 3
4	Relay NO / Linear -	
5	Relay COM / SSR -	Output 2
6	Relay NO / SSR +	
7	L +	Power
8	N -	
9	Volt-free or TTL Compatible	Digital Input
10		Output 1
11	Relay COM / SSR -	
12	Relay NO / SSR +	Output 1
16	Relay NC	Input
13	RTD	
14	TC / RTD / Linear +	Input
15	TC / RTD / Linear -	

* Dedicated configuration port

Bus Connector pin-outs: A Data A B Data B

* NEVER DIRECTLY CONNECT DEDICATED CONFIGURATION SOCKET TO A USB PORT.

2. FRONT PANEL

Ok / Select
Up
Down

Display turns off after 5, 15 or 30 minutes without key presses.

PV 25 °C
SP 37

Display shows PV (process variable), units, SP (setpoint), alarm/latch statuses, error & warning messages.

LEDs show respective output state: 1 2 3

Navigation & Editing

- Press ▲ or ▼ keys to navigate between parameters or menu items.
- Press ◉ to highlight and edit a parameter value.
- Press ▲ or ▼ to change the parameter value, then press ◉ within 60 seconds to confirm change.

For example, changing the setpoint (SP).

PV 25 °C SP 0
PV 25 °C SP 0
PV 25 °C SP 50
PV 25 °C SP 50
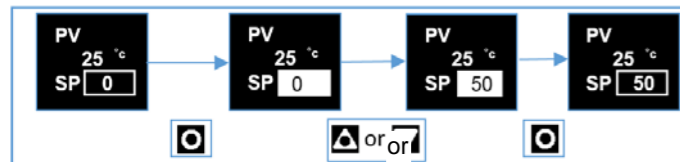
Navigating to Setup Mode or Advance Configuration from Operator Mode:
Setup Mode - press ◉ & ▲.
Advanced Configuration - press ◉ & ▼.

Returning to Operator Mode:
Press ◉ & ▲ to move back one level. After 120 seconds without key presses the unit returns automatically to the first Operator Mode screen.

3. SETUP (& FIRST POWER UP)

Important Note: When powered up for the first time, or after a factory reset (default) the instrument enters Setup.
The device remains in Setup, or will keep powering up back into Setup, until all parameters have been reviewed and the user exits Setup.

Some parameters may be hidden depending on configuration & hardware.
Alternatively press ◉ & ▲ to enter Setup from Operator mode and ◉ & ▲ to exit.

Setup Lock	Enter code & press ◉	Default 10

Parameter	Description	Default Value
>Input Type	**J Thermocouple ***	K Thermocouple
	-200 – 1200°C -128.8 – 537.7°C	
	-328 – 2192°F -199.9 – 999.9°F	
	K Thermocouple *	
	-240 – 1373°C -128.8 – 537.7°C	
	-400 – 2503°F -199.9 – 999.9°F	
	PT100 *	
	-199 – 800°C -128.8 – 537.7°C	
	-328 – 1472°F -199.9 – 999.9°F	
	B Thermocouple	
	100 – 1824°C	
	211 – 3315°F	
	C Thermocouple	
	0 – 2320°C 32 – 4208°F	
	L Thermocouple *	
	0 – 762°C 0.0 – 537.7°C	
	32 – 1403°F 32.0 – 999.9°F	
	N Thermocouple	
	0 – 1399°C 32 – 2551°F	
	R Thermocouple	
	0 – 1795°C 32 – 3198°F	
	S Thermocouple	
	0 – 1762°C 32 – 3204°F	
	T Thermocouple *	
	-240 – 400°C -128.8 – 400.0°C	
	-400 – 752°F -199.9 – 752.0°F	
	Linear dc	
	0 - 20mA 4 - 20mA	
	0 - 50mV 10 - 50mV	
	0 - 5V 1 - 5V	
	0 - 10V 2 - 10V	
>Input Units	°C or °F (hidden when a linear input is used)	°C
	Maximum of 1 decimal place for temperature inputs marked.	
>Input Decimal Place	0000 * 000.0 * 00.00 0.000	0000
	Scale Range max & min only visible when input is a linear type.	
>Input Scale Range Maximum	Maximum for application working range.	1000
>Input Scale Range Minimum	Minimum for application working range.	0
>Input Digital I/P Action	None Alarm Reset *(clears latched alarms)* Ctrl Enable/Disable *(disables control)* Ctrl Auto/Manual Pre-Tune Start/Stop Tune at SP Start/Stop	Ctrl Enable/Disable
>Output 1 Usage	Heat Cool Alarm 1 Alarm 2 Alm. 1or2 Loop Alarm	Heat
	Control Loop Alarm time is 2x Integral (PID) or Loop Alarm Time (if mode is On.Off)	
>Output 2 Usage	Same options as Output 1 Usage.	Alarm 1
>Output 3 Usage or >Linear Outp Usage	Same options as Output 1 Usage. Heat Cool PV Retx SP Retx	Alarm 2 / PV Retx
>Linear Outp Type	0-10V 2-10V 0-20mA 4-20mA 0-5V 1-5V	0-10V

>Linear Outp Scale Range Maximum	Maximum PV value corresponding to maximum linear output.	Input type Max
>Linear Outp Scale Range Minimum	Minimum PV value corresponding to minimum linear output.	Input type Min
>Alarm Value	Range minimum to range maximum, or OFF (maximum +1). **OFF** disables alarm. Default **PV High** alarm type.	1373
>Alarm 2 Value	Same options as Alarm 1. Default **PV Low** alarm type.	-240
Setpoint	Target setpoint.	0
>Coms Unit Address	Modbus address from **1** to **255**	1
>Coms Baud Rate	**1200**, 2400, 4800, 9600, 19200 & 38400	9600
>Coms Parity	Odd, **Even** or None	None
>Control Automatic Tuning	**Off**, Start Pre-Tune or Start Tune at SP *	Off

*Start Tune at SP not available for Heat & Cool processes.
When you exit if necessary, press ◉ and ▲ to clear **Control is Enabled** Pop Up Alert.

4. OPERATOR MODE

Name	Details	
User Screen	PV 25 °C SP 37	PV - top SP - bottom Temperature Unit - right.
Manual control	PV 25 °C P% 50	Manual Power is shown as **P%**.
Transmitter view enabled	PV 25 °C	**Transmitter** parameter = **Enable**, SP is hidden. **Important:** The device still functions as a controller, using the local Setpoint.

Important: Visibility for parameters below must be set to **Show** in **Operator** sub-menu.

Name		Details	
Alarm State	Alarm State Alarm 1 Alarm 2 Loop	To clear latches press ◉ then ▲ to select **Yes**. Press ◉ to accept.	Alarm active Alarm set, but not active – Alarm not set
Latch State	Latch State Out 1 Out 2 Out 3		Output Latched Latch set, but output not Latched – Latch not set
Maximum PV	To clear press ◉ then ▲ to select **Yes**. Press ◉ to accept.		Screens show the Maximum & Minimum PV reached.
Minimum PV			
Control Enable	**OFF** - Control output(s) disabled. (Ignored when in manual mode.) **ON** - Control output(s) enabled.		
Manual Control Enable	**OFF** - Automatic control, PID or On-Off control available. **ON** - Manual control, Manual Power shown as **P% xxx**.		
Time On Remaining	On Timer	Visible when On Timer is active. See Ramp & Timers diagram.	
Delay Time Remaining	Delay Timer	Visible when Delay Timer is active. See Ramp & Timers diagram.	

Warnings & Error Messages

Caution: Do not continue your process until any issues are resolved.

Name	Details
Pop up Alerts: Warnings and Confirmations	Alarm 1 For example, Pop Up Alert for Alarm 1. Pop Up Alerts need to be acknowledged. Press ◉ and ▲ to clear Pop Up Alert.
Pop up Alerts: **Alarm 1**, **Alarm 2**, **Alarm 1 & 2**, **Starting Calibration**, **Calibration Ongoing**, **Calibration Fail**, **Control is Enabled**, **Tune Error** messages, **Tuning in progress, Setup not Completed** & **Offset in use** (SP offset).	
ALARM	Alternates with PV to show Alarm is active.
LATCH	Alternates with PV. One or more outputs are latched on and no alarm is active.
HIGH	Process variable input > 5% over-range.
LOW	Process variable input > 5% under-range.
OPEN	Break detected in process variable input sensor, wiring or wrong input type selected. Shows **OPEN** until resolved, control is off.
ERROR	Selected input range is not calibrated. Shows **ERROR** until resolved, control is off.
TUNE	Alternates with SP. Auto-tuning is in progress.
P%	Manual power value replaces setpoint, shows **P% xxx** of power.
Ramp	Alternates with actual setpoint. Setpoint ramp is active.
OFF	Control is disabled. Control output(s) are off.
Control Delayed	Visible when Delay Timer is active. Control output(s) are off.
Tuning in progress	Alternates with setpoint. Tuning is active.

Tune Errors		
	Display alternates between Tune Error & Setpoint. Remains visible when **Automatic Tuning** is turned **Off**.	
	tErr1	PV within 5% of SP (for pre-tune)
	tErr2	Setpoint is ramping
	tErr3	Control is ON/OFF (not PID)
	tErr4	Control is manual
	tErr5	Tune at Setpoint not able to run
	tErr6	Sensor Break
	tErr7	Timer Running
	tErr8	Control is Disabled

5. SPECIFICATIONS

Important: Check your product code for exact hardware fitted.

PROCESS INPUT

Thermocouple Calibration:	±0.25% of full range, ±1LSD & ±1°C for Thermocouple CJC. BS4937, NBS125 & IEC584.
PT100 Calibration:	±0.25% of full range, ±1LSD. BS1904 & DIN43760 *(0.00385Ω/Ω/°C)*.
DC Calibration:	±0.25% of full range, ±1LSD.
Sampling Rate:	4 per second.
Impedance:	>1MΩ resistive, except dc mA (5Ω) and V (47kΩ)
Sensor Break Detection:	Thermocouple, RTD, V to 20mA, 10 to 50mV, 2 to 10V and 1 to 5V ranges only. Control outputs turn off at sensor break.

DIGITAL INPUT (Isolated or Non-Isolated version)

Functions:	**Reset Alarm**, **Control Enable/Disable**, **Auto/Manual**, **Pre-Tune Start/Stop** or **Tune at SP Start/Stop**.
Signal:	Non-isolated - Open or Close only. Isolated - Open (2 to 24Vdc) or Closed (<0.8Vdc). Closed to Open transition = **Reset**, **Enabled**, **Auto** or **Start**.

OUTPUTS

Relay Contacts:	Form C SPDT (Op 1) / Form A SPST relay (other), 2A @ 250Vac.
Relay Lifetime:	>150,000 operations at rated voltage/current, resistive load.
SSR Driver Capability:	SSR drive voltage >10V at 20mA
Output 3 option only: DC (Linear)	
Types:	0 to 20mA, 4 to 20mA, 0 to 5V, 0 to 10V or 2 to 10V
Load Resistance:	Current Output 500Ω max, Voltage Output 500Ω min.
Resolution:	8 bits in 250ms (10 bits in 1s typical, >10 bits in >1s typical).

RS485 SERIAL COMMUNICATIONS (Modbus RTU)

Data Rate:	1200, 2400, 4800, 9600, 19200 or 38400 bps.

OPERATING CONDITIONS

Usage:	For indoor use only, DIN-rail mounted in suitable enclosure.
Ambient Temp:	<95% humidity 0°C to 55°C (Operating), –10°C to 80°C (Storage).
Relative Humidity:	20% to 95% non-condensing.
Altitude:	< 2000m
Power Supply:	Mains power version - 100 to 240Vac ±10%, 50/60Hz, 9VA Low voltage version - 24Vac +10/-15% 50/60Hz 9VA or 24Vdc +10/-15% 5W.

ENVIRONMENTAL

Standards:	CE, UL & cUL.
EMI:	EN61326-1:2013, Table 2 & Class A.
	Warning: This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.
Safety:	UL61010-1 Edition 3, EN61010-1 Version 2010, Pollution Degree 2 & Installation Class 2.
Protection Rating:	IP20.

PHYSICAL

Unit Size:	Height - 99mm; Width – 22.5mm; Depth - 121mm
Ventilation:	A space of 80mm must be allowed above & below each unit.
Weight:	0.20kg maximum

ISOLATION

	PSU	Universal Input	Relay	SSR	Linear	RS485 Comms	Non-Isolated Digital Input	Isolated Digital Input	Configuration Port
PSU									
Universal Input									
Relay									
SSR									
Linear									
RS485 Comms									
Non-Isolated Digital Input									
Isolated Digital Input									
Configuration Port									

Not Applicable No Isolation Reinforced Isolation

6. SAFETY & WARNING SYMBOLS

⚠ **Risk of electric shock.**   ⚠ **Caution, refer to the manual.**

〜 **Alternating or direct current could be present.**   ▢ **Equipment protected through-out by double insulation.**

7. ADVANCED CONFIGURATION

Advanced Configuration gives access to all possible parameters; however, the device hides parameters that are irrelevant to your exact product specification & configuration.

Advanced Configuration Navigation

Enter by pressing ▣ & ▼. Press ▲ or ▼ to navigate to the required menu, then press ▣ to enter.

Press ▣ & ▲ to exit up 1 level. Depending upon which menu you enter it may be necessary to exit 2 or 3 levels for Operator Mode.

Advanced Configuration menus

Advanced Lock	Enter code & press ▣	Default **20**

Advanced Configuration menus

Menus	Description
User	Includes Status, Control & Manual Mode enable/disable.
Input	Configure the process input.
User Calibration	Single or two-point calibration adjustments for the process input.
Outputs	Configuration parameters for the outputs.
Control	PID control tuning & configuration parameters.
Setpoint & Timer	Setpoint & timer settings.
Alarms	Alarm configuration.
Communication	Modbus communications settings.
Display	Lock codes and Factory Default.
Operator Screens	Control what appears in Operator Mode.
Information	View serial number & manufacturing details.

User menu

Parameter	Description		Default Value
Alarm State	**Alarm State** Alarm 1 〈▲〉 Alarm 2 🜂 Loop –	〈▲〉 Alarm active 🜂 Alarm set, but not active – Alarm not set	n/a
Latch State	**Latch State** Out 1 🔒 Out 2 🔒 Out 3 –	🔒 Output Latched 🔒 Latch set but output not Latched – Latch not set To clear press ▣ then ▲ to select **Yes**. Press ▣ to accept.	n/a
Maximum PV	Maximum and Minimum PV recorded whilst powered up or since last reset. To clear press ▣ then ▲ to select **Yes**. Press ▣ to accept.		n/a
Minimum PV			
Control Enable	**OFF** - Control output(s) disabled. (Ignored when in manual mode) SP replaced by **OFF**.		ON
	ON - Control output(s) enabled. Setpoint visible in User screen.		
Manual Control Enable	**OFF** - Instrument in automatic control mode (PID or On-Off control)		OFF
	ON - Manual control ON. Power shown as **P***xxx* **%** in Operator mode, in place of SP.		

Input menu

Parameter	Description	Default Value
Input Type	See Input Type table in SETUP (& FIRST POWER UP).	K Thermocouple
Units	Displayed as °C or °F (Units are hidden when a linear input is used)	°C
Decimal Place	0000 000.0 00.00 *Not for temperature.* 0.000	0000
Scale Range Maximum	Maximum for application working range	Max allowed for Input Type.
Scale Range Minimum	Minimum for application working range	Min allowed for Input Type.
Filter Time	**OFF** or **0.5** to **100.0** seconds in **0.5** increments	2.0
CJC Enable	**Enable** Enables the internal thermocouple CJC (Cold Junction Compensation).	Enable
	Disable Disables the internal CJC. External compensation must be provided for thermocouples.	

Parameter	Description	Default Value
Digital I/P Action	**None** **Alarm Reset** (clears latched alarms) **Ctrl Enable/Disable** **Ctrl Auto/Manual** **Pre-Tune Start/Stop** **Tune at SP Start/Stop** (not available for heat/cool)	Ctrl Enable/Disable

User Calibration menu

Single-point offset or two-point calibration adjustment for process input. Can be used together, if required.

Parameter	Description	Default Value
Offset	Shifts the input value up or down by a single offset amount across the entire range.	0
Low Point	Enter value at which the low point error was measured.	Lower Limit
Low Offset	Enter equal, but opposite offset value to the observed low point error.	0
High Point	Enter value at which the high point error was measured.	Upper Limit
High Offset	Enter an equal, but opposite offset value to the observed high point error.	0

Outputs menu

Parameter	Description		Default Value
>Output 1			
Usage	Heat Cool Alarm 1 Alarm 2 Alm. 1or2 Loop Alarm		Heat
	Control Loop Alarm is set as 2x Integral (PID) or Loop Alarm Time (On.Off control)		
Alarm Action	**Direct** - Output active when alarm triggers **Reverse** - Output active when alarm is not triggered		Direct
Latching	**Off** - Alarm doesn't latch **On** – Alarm latches & needs to be cleared		Off
LED Indicator	**Direct** - LED Indicator lit when output is active **Reverse** - LED Indicator lit when output is inactive		Direct
>Output 2			
Usage	Same options as Output 1 - Usage		Alarm 1
Alarm Action	Same options as Output 1 - Alarm Action		Direct
Latching	Same options as Output 1 - Alarm Latching		Off
LED Indicator	Same options as Output 1 - LED Indicator		Direct
>Output 3 **or >Linear Outp**	3rd output - either Relay/SSR driver (Output 3) or Linear.		
>Output 3 Usage	Output 3 - same options as Output 1 - Usage		Output 3: Alarm 2
>Linear Outp Usage	Heat Cool PV Retransmit SP Retransmit		Linear: PV Retransmit
>Output 3 Alarm Action	Same options as Output 1 - Alarm Action		Direct
>Output 3 Alarm Latching	Same options as Output 1 - Alarm Latching		Off
>Output 3 LED Indicator	Same options as Output 1 - LED Indicator		Direct
>Linear Outp Type	0-10V 2-10V 0-20mA 4-20mA 0-5V 1-5V		0-10V
>Linear Outp Scale Range Maximum	Display value for maximum output, -1999 to 9999		Input type Max
>Linear Outp Scale Range Minimum	Display value for minimum output, -1999 to 9999		Input type Min

## Control menu

PID control tuning & configuration & Loop Alarm. Hidden if no control outputs are set.

Parameter	Description	Default Value
Proportion Heat Band	**ON/OFF** (0.0) or PID control in display units. **1** to **9999** - **0** decimal places **0.1** to **999.9** - 1 decimal place **0.01** to **99.99** - 2 decimal places **0.001** to **9.999** - 3 decimal places	161
Proportion Cool Band		161
Auto Reset (Integral)	**0.01** to **99.59**. and **OFF** (**0.00**) (minutes & seconds).	5.00

Parameter	Description	Default Value
Rate (Derivative)	**0.01** to **99.59** or **OFF** (**0.00**) (minutes & seconds).	1.15
Overlap/ Deadband	In display units, range -20 to +20% of Heat & Cool Proportional Band. **0** is Off.	0
Differential (On/Off)	Visible when using On/Off control. In display units centred about the setpoint. Range: 0.1% to 10.0% of input span	8
Loop Alarm Time	Visible when On/Off control & Loop Alarm assigned to an output. Sets time before the loop alarm triggers. (minutes & seconds)	99.59
Manual Rst (Bias)	Manual Reset **0** to **100%** (**-100%** to **100%** if heat/cool control)	25%
Heat Cycle Time	**0.1** to **512.0** seconds	32.0
Cool Cycle Time		32.0
Output Interlock	Prevents simultaneous activation of both heat & cool outputs. **On** / **Off** Only set to **On** if Overlap/Deadband = 0.	Off
Heat Power Limit	% power upper limit **0** to **100%**	100%
Cool Power Limit	% power upper limit **0** to **100%**	100%
Power Up Action	**Last** - Powers up with control enable in the same state as on power off or power failure. **On** - Always powers up with control enabled.	Last
Automatic Tuning	**Off** **Start Pre-Tune** **Start Tune at SP** *	Off
	*Start Tune at SP not available for Heat & Cool process.	

Setpoint menu

Parameter	Description		Default Value
Enable Timer	**Enabled**	Enables the Delay and On Timers. Applies at next power-up / control enable.	Disabled
	Disabled	Delay and On Timers ignored. (Setpoint ramping still functions.)	
Delayed Start Time	Time from power-up or control enable before control begins from **00.01** to **99.59**. or **OFF** (**0.00**. (hours & minutes) If **OFF** control starts immediately.		OFF
Ramp Rate	Rate actual setpoint changes from current PV to target setpoint following power-up or control enable. From **0.001** to **9999**. or **OFF** (**10 000**) (Units / hr). Any setpoint changes also follow this rate.		OFF
On Time	The time the target setpoint will be maintained once reached, from **00.01** to **99.59** or **Off** (**00.00**) (hours & minutes) **Infinite** (**100.00**) - control remains on indefinitely.		Infinite
Upper Limit	Used to limit the Maximum setpoint value.		Scale Range Maximum
Lower Limit	Used to limit Minimum setpoint value.		Scale Range Minimum
Offset	Offsets the setpoint. For use in multi-zone setpoint slave applications. **Offset in use** pop-up appears when SP is changed.		0
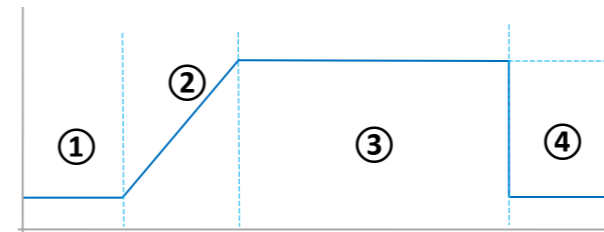
Ramp & Timers diagram – delay, ramp and timer

① From power up or control enable the unit delays process control until the Delay Timer expires (time set by Delayed Start Time).

② Setpoint ramps from the current PV to the target setpoint at Ramp Rate (**Ramp** indicates ramping). If Ramp Rate is **OFF** the active setpoint steps directly to target setpoint.

③ When the active setpoint reaches the target setpoint, the On Timer counts down (time set by On Time).

④ When the On Timer finishes the control switches off. If On Time is set to INF then the control stays on.

Alarms menu

Parameter	Description	Default Value
>Alarm 1		
Type	None PV High PV Low Deviation Band	PV High

Parameter	Description	Default Value
Value	Range minimum to range maximum, or OFF (maximum +1). **OFF** disables alarm.	1373
Hysteresis	0 to full span.	1
>Alarm 2		
Type		PV Low
Value	Same options as Alarm 1	-240
Hysteresis		1
>Options		
	Alarm Inhibit temporarily deactivates alarms at power-up & on change in setpoint.	
Alarm Inhibit	**None** **Alarm 1** **Alarm 2** **Alarm 1 & 2**	None
Alarm PV Notification	**None** **Alarm 1** **Alarm 2** **Alarm 1 & 2**	Alarm 1 & 2
Sensor Break Alarm	**On** - activates both alarms, if configured, when a sensor break is detected.	Off

Communications menu

Modbus communications settings, only shown when RS485 option is fitted.

Parameter Name	Description	Default Value
Unit Address	Modbus address from **1** to **255**	1
Baud Rate	Coms data rate in kbps **1200**, **2400**, **4800**, **9600**, **19200** & **38400**.	9600
Parity	Parity checking: **Odd**, **Even** or **None**	None

Display menu

Lock codes & Factory Defaults.

Parameter Name	Description	Default Value
Setup Unlock Code	View & adjust Setup lock code. From **1** to **9999** or **Off** for no lock code.	10
Advanced Unlock Code	View & adjust Advanced lock code. From **1** to **9999** or **Off** for no lock code.	20
Screen Timeout	Screensaver time **5**, **15** or **30** mins.	5
Selected language	Display language, 2 available – **English** plus either **German** or **French**.	English
Transmitter	Transmitter view **Enable** hides the setpoint. ⚠ **Important:** The device still functions as a controller even though SP is hidden. For transmitter function, **Linear Outp** – **Usage** must be **PV Retransmit** or **SP Retransmit**.	Disable
Reset to Defaults	Reset parameters back to factory defaults. To clear press ▣ then ▼ to select **Yes**. Press ▣ to accept.	

Operator Screens menu

Controls what appears in Operator Mode.

Parameter Name	Description	Default Value
Control Enabled		Hide
Manual Ctrl Enabled		Hide
Alarm State		Hide
Latch State	**Hide** or **Show** parameters in Operator Mode.	Show
Maximum PV		Hide
Minimum PV		Hide
Remaining On Time		Hide
Remaining Delay Time		Hide

Information menu (Read-Only)

Parameter Name	Description
PRL	The hardware/software revision level.
DOM	Date of manufacture *(mmyy)*.
FW Version	The firmware version number & code type.
FW Type	
Serial	Instrument serial number.
Out1	**SSR** (SSR driver) or **Relay**.
Out2	**SSR** (SSR driver) or **Relay**.
Out3	**None**, **SSR** (SSR driver), **Relay** or **Linear**.
Comm	Comms option - **Fitted** or **None**.
DI	Digital Input options – **Iso** (isolated) or **NonIs** (non-isolated).

FOR MORE INFORMATION VISIT THIS SITE

http://www.rs-components.com/index.html