

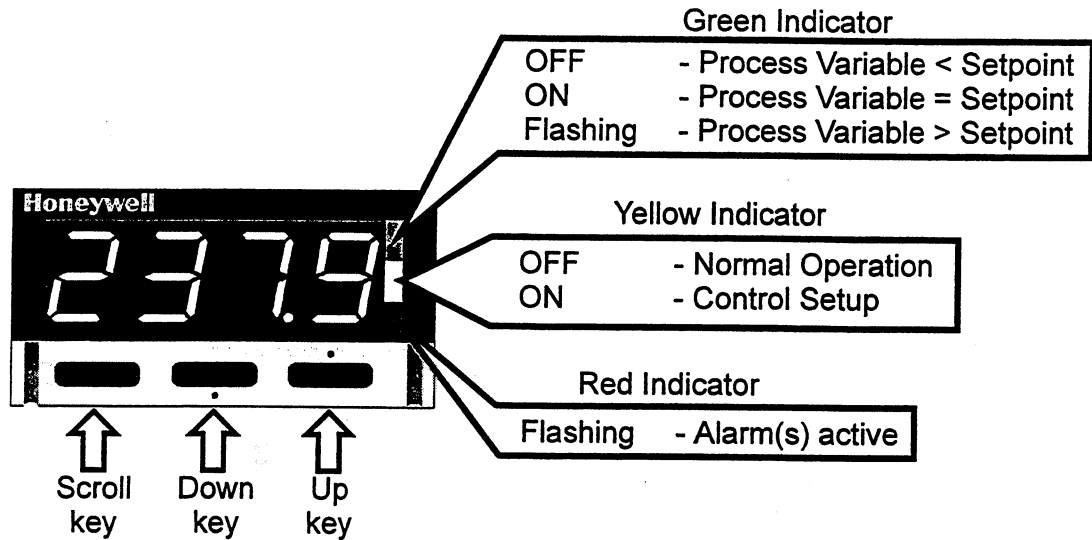
Honeywell

**UDC 700 Micro-Pro
Universal Digital Controller**

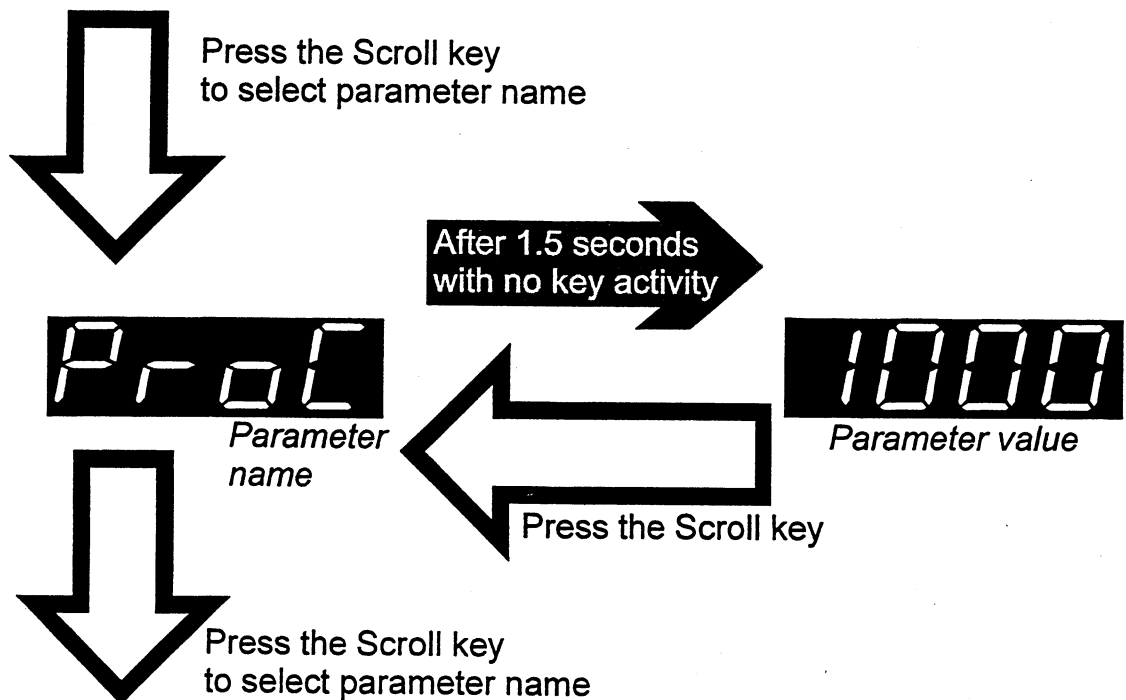
Operator's Manual

EN11-6227

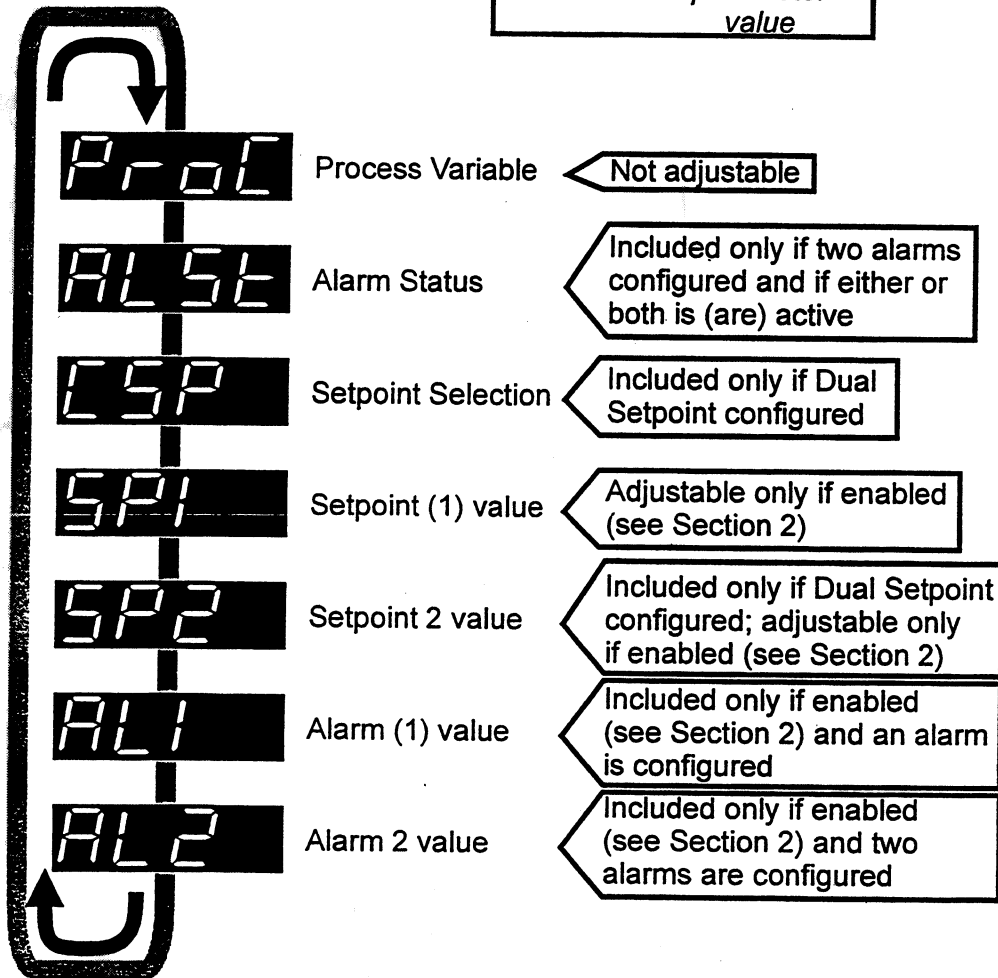
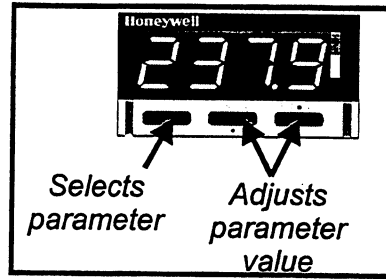
1 NORMAL OPERATION (Yellow LED OFF)



In this mode, the display normally shows the process variable value. Use the Scroll key to step through a sequence of parameters as follows:



The following parameters are available in Normal Operation:



1.1. EASY TUNE

If the Controller has been configured for Easy Tune operation, all tuning is executed automatically; no operator action is required.

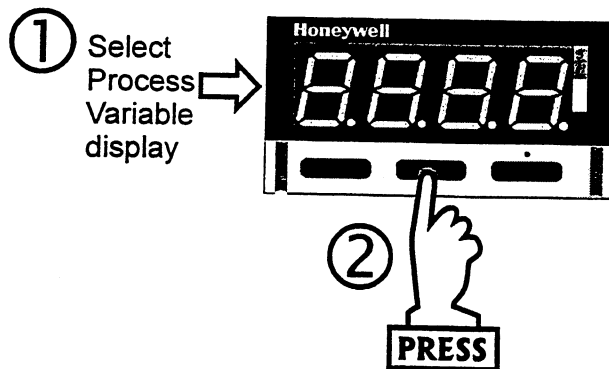
1.2. MANUAL TUNING WITH PRE-TUNE

When the Controller is configured for Manual Tuning, the Pre-Tune facility is available. Pre-Tune is used to optimise system start-up (normally after power-up or after a major change to the process being controlled). To activate Pre-Tune:



NOTE: Pre-Tune cannot be activated if the Process Variable is within 5% of input span from the setpoint.

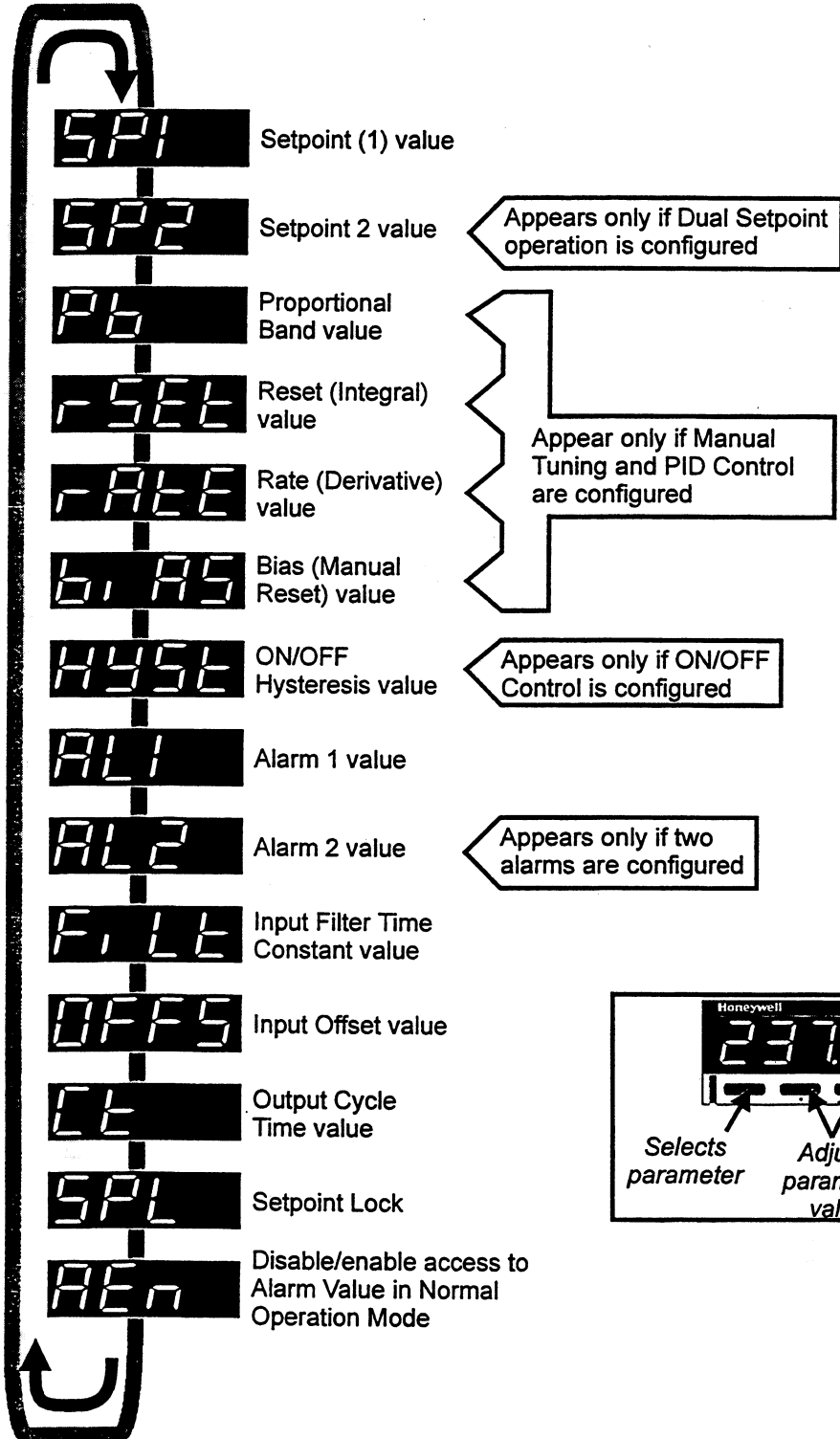
To dis-engage Pre-Tune:



NOTE: Pre-Tune is a single-shot operation and, therefore, when it is completed, Pre-Tune will dis-engage itself automatically.

2 CONTROL SETUP (Yellow LED ON)

To enter Control Setup mode, press the Up and Down keys simultaneously for more than three seconds. The same key action exits this mode. The parameters are:



2.1. ADJUSTMENT RANGES

Parameter	Adjustment Range
Setpoint(s)	Input Range Min. To Input Range Max. NOTE: Negative values limited by display to -1999
Proportional Band	0.5% to 999.9% (0.1% increments)
Reset	1sec to 99min 59 sec and OFF (>99min 59sec)
Rate	0 (OFF) to 99min 59sec
Bias (Manual Reset)	0% to 100%
ON/OFF Hysteresis	0.1% to 10.0% of input span.
Alarm (1 & 2) Level	Process High: Input Range Min. To Input Range Max. Process Low: Input Range Min. To Input Range Max. Deviation (High or Low): -(input span) to +(input span) Band: 1 LSD to input span NOTE: Negative values limited by display to -1999
Input Filter Time Const.	0sec to 100sec
Input Offset	±(input span) NOTE: Negative values limited by display to -1999
Output Cycle Time	0.5 (SSR only), 1, 2, 4, 8, 16, 32, 64, 128, 256 & 512sec
Setpoint Lock	OFF display/adjustment enabled in Normal Operation On display/adjustment disabled in Normal Operation
Alarm Value Display Enable/Disable	EnAb display/adjustment enabled in Normal Operation Di SA display/adjustment disabled in Normal Operation

2.2. DEFAULT VALUES/SETTINGS

Parameter	Default Value/Setting
Setpoint(s)	Input Range Min.
Proportional Band	10.0%
Reset	5 minutes
Rate	1 minute 15 seconds
Bias (Manual Reset)	25%
ON/OFF Hysteresis	0.5% of input span
Alarm (1 & 2) Level	Alarm 1: Process High, Input Range Max. Alarm 2: Process Low, Input Range Min.
Input Filter Time Const.	2 seconds
Input Offset	0
Output Cycle Time	16 seconds
Setpoint Lock	OFF (adjustment enabled)
Alarm Value Display Enable/Disable	EnAb (enabled)

TECHNICAL ASSISTANCE

If you encounter a problem with your unit, please review all the configuration data to verify that your selections are consistent with your application (i.e. inputs, outputs, alarms, limits etc.). If the problem persists after checking the above parameters, you can get technical assistance by calling the following:

In the U.S.A.:

1-800-423-9883

In other countries:

*See following Honeywell
Service Center addresses*

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