



# UDC 3500 Application Note

## Configuration Record Sheet

Enter the value or selection for each prompt on this sheet so you will have a record of how your controller was configured.

### Configuration Record Sheet

Group Prompt	Function Prompt	Value or Selection	Factory Setting
<b>LOOP 1 TUNING</b>	PROP BD or <b>GAIN</b>	<b>0.653</b>	1.000
	<b>RATE MIN</b>	<b>0</b>	0.00
	<b>RSET MIN</b> or RSET RPM	<b>0.1</b>	1.00
	MAN RSET		0
	PROP BD2 or GAIN2		1.00
	RATE 2 MIN		0.00
	RSET2MIN or RSET2RPM		1.00
	PROP BD3or GAIN3		1.00
	RATE 3 MIN		0.00
	RSET3MIN or RSET3RPM		1.00
	PROP BD4or GAIN4		1.00
	RATE 4MIN		0.00
	RSET4MIN or RSET4RPM		1.00
	CYC SEC or CYC SX3		20
	CYC2SEC or CYC2SX3		20
	SECURITY		0
	LOCKOUT		CALIB
	AUTO MAN		ENABLE
	RUN HOLD		ENABLE
	SP SEL		ENABLE
<b>LOOP 2 TUNING</b>	PROP BD or GAIN		1.000
	RATE MIN		0.00
	RSET MIN or RSET RPM		1.00
	MAN RSET		0
	PROP BD2 or GAIN2		1.00
	RATE 2 MIN		0.00
	RSET2MIN or RSET2RPM		1.00
	PROP BD3or GAIN3		1.00
	RATE 3 MIN		0.00
	RSET3MIN or RSET3RPM		1.00
	PROP BD4or GAIN4		1.00
	RATE 4MIN		0.00
	RSET4MIN or RSET4RPM		1.00
	CYC SEC or CYC SX3		20
<b>SP RAMP</b>	<b>SP RAMP</b>	<b>DISABLE</b>	DISABLE
	TIME MIN		3
	FINAL SP		1000
	HOT START		DISABLE
	<b>SP RATE</b>	<b>DISABLE</b>	DISABLE
	EU/HR UP		0
	EU/HR DN		0
	SP PROG	For SP Program record sheet – see Error! Reference source not found.	
<b>ACCUTUNE</b>	<b>FUZZY</b>	<b>DISABLE</b>	DISABLE
	ACCUTUNE		DISABLE
	DUPLEX		MANUAL
	SP CHANGE		10
	KPG		1.00
	CRITERIA		FAST



# UDC 3500 Application Note

Group Prompt	Function Prompt	Value or Selection	Factory Setting
	ACCUTUN2		DISABLE
	DUPLEX		MANUAL
	SP CHANG2		10
	KPG2		1.00
	CRITERIA2		FAST
	AT ERROR		READ ONLY
	AT ERR 2		READ ONLY
<b>ALGORITHM</b>	<b>CONT ALG</b>	<b>PID A</b>	PID A
	PIDLOOPS		1 or 2
	CONT2ALG		PID A
	OUT OVRD		DISABLE
	<b>TIMER</b>	<b>DISABLE</b>	DISABLE
	PERIOD		0.01
	START		KEY
	LWR DISP		TI REM
	RESET		KEY
	INCREMENT		MINUTE
	<b>INALG1</b>	<b>NONE</b>	NONE
	MATH K		--
	CALC HI		--
	CALC LO		--
	ALG1 INA		--
	ALG 1 INB		--
	ALG1 INC		--
	PCO SEL		DISABLE
	PCT CO		0.200
	PCT H2		--
	ATM PRESS		780.0
	ALG1 BIAS		--
	<b>INALG2</b>	<b>NONE</b>	NONE
	MATH K2		--
	CALC HI		--
	CALC LOW		--
	ALG2 INA		--
	ALG2 INB		--
	ALG2 INC		--
	ALG2 BIAS		--
<b>MATH</b>	<b>8SEG CH1</b>	<b>ENABLE</b>	DISABLE
	<b>X0 VALUE</b>	<b>28.31</b>	0
	<b>X1 VALUE</b>	<b>31.28</b>	0
	<b>X2 VALUE</b>	<b>37.62</b>	0
	<b>X3 VALUE</b>	<b>43.58</b>	0
	<b>X4 VALUE</b>	<b>46.58</b>	0
	<b>X5 VALUE</b>	<b>51.51</b>	0
	<b>X6 VALUE</b>	<b>55.72</b>	0
	<b>X7 VALUE</b>	<b>60.07</b>	0
	<b>X8 VALUE</b>	<b>66.81</b>	0
	<b>Y0 VALUE</b>	<b>15.84</b>	0
	<b>Y1 VALUE</b>	<b>24.01</b>	0
	<b>Y2 VALUE</b>	<b>33.68</b>	0
	<b>Y3 VALUE</b>	<b>37.61</b>	0
	<b>Y4 VALUE</b>	<b>42.01</b>	0



# UDC 3500 Application Note

Group Prompt	Function Prompt	Value or Selection	Factory Setting
	Y5 VALUE	46.52	0
	Y6 VALUE	49	0
	Y7 VALUE	52.09	DISABLE
	Y8 VALUE	54.93	0
	8 SEG CH2	DISABLE	0
	X11 VALUE		0
	X12 VALUE		0
	X13 VALUE		0
	X14 VALUE		0
	X15 VALUE		0
	X16 VALUE		0
	X17 VALUE		0
	Y9 VALUE		0
	Y10 VALUE		0
	Y11 VALUE		0
	Y12 VALUE		0
	Y13 VALUE		0
	Y14 VALUE		0
	Y15 VALUE		0
	Y16 VALUE		0
	Y17 VALUE		0
	TOTALIZE	DISABLE	DISABLE
	ΣXXXXXXX		--
	TOT SCALE		E0
	TOT SCR		UNLOCK
	Σ RESET?		NO
	TOT RATE		SECOND
	POLYNOM	DISABLE	DISABLE
	C0 VALUE		0
	C1 VALUE		0
	C2 X 10 <sup>-1</sup>		0
	C2 X 10 <sup>-3</sup>		0
	C2 X 10 <sup>-5</sup>		0
	C2 X 10 <sup>-7</sup>		0
LOGIC	LOG GATE	DISABLE	DISABLE
	GATE1TYP		NOT USED
	GATE1INA		CONST K
	GATE1 K		0
	GATE1INB		FIXED OFF
	GATE1OUT		ANY GATE
	GATE2TYP		NOT USED
	GATE2INA		CONST K
	GATE2 K		0
	GATE2INB		FIXED OFF
	GATE2OUT		ANY GATE
	GATE3TYP		NOT USED
	GATE3INA		CONST K
	GATE3 K		0
	GATE3INB		FIXED OFF
	GATE3OUT		ANY GATE
	GATE4TYP		NOT USED
	GATE4INA		CONST K
	GATE4 K		0
	GATE4INB		FIXED OFF
	GATE4OUT		ANY GATE
	GATE5TYP		NOT USED
	GATE5INA		CONST K



# UDC 3500 Application Note

Group Prompt	Function Prompt	Value or Selection	Factory Setting
	GATE5 K		0
	GATE5INB		FIXED OFF
	GATE5OUT		ANY GATE



# UDC 3500 Application Note

Group Prompt	Function Prompt	Value or Selection	Factory Setting
<b>OUTPUT</b>	OUT ALG	<b>CURRENT</b>	CURRENT
	OUT RNG		100PCT
	<b>C1 RANGE</b>	<b>4-20 mA</b>	4-20mA
	RLYSTATE		1OF2ON
	RLY TYPE		MECHAN
	MOTOR TI		5
	OUT2 ALG		CURRENT
	OUT2 RNG		100PCT
	C3 RANGE		4-20mA
	RLYSTAT2		1OF2ON
	CUR OUT1		DISABLE
	LOW VAL		0.0
	HIGH VAL		100.0



# UDC 3500 Application Note

<b>INPUT 1</b>	IN1 TYPE	4-20 mA	0-10mV
	XMITTER1	SQROOT	
	IN1 HIGH	100	1000
	IN1 LOW	0	0
	RATIO 1	1	1.00
	BIAS IN1	0	0
	FILTER 1	5	0
	BURNOUT1	NONE	
	EMISSIV1		0.00
<b>INPUT 2</b>	IN2 TYPE	4-20 mA	0-10mV
	XMITTER2	SQROOT	
	IN2 HIGH	100	1000
	IN2 LOW	0	0
	RATIO 2	1	1.00
	BIAS IN2	0	0
	FILTER 2	5	0
	BURNOUT2	NONE	
	EMISSIV2		0.00
<b>INPUT 3</b>	IN3 TYPE		0-10mV
	XMITTER3		LINEAR
	IN3 HIGH		1000
	IN3 LOW		0
	RATIO 3		1.00
	BIAS IN3		0
	FILTER 3		0
	BURNOUT3		NONE
	EMISSIV3		0.00
<b>INPUT 4</b>	IN4 TYPE	DISABLE	0-10mV
	XMITTER4		LINEAR
	IN4 HIGH		1000
	IN4 LOW		0
	RATIO 4		1.00
	BIAS IN4		0
	FILTER 4		0
	BURNOUT4		NONE
<b>INPUT 5</b>	IN5 TYPE		0-10mV
	XMITTER5		LINEAR
	IN5 HIGH		1000
	IN5 LOW		0
	RATIO 5		1.00
	BIAS IN5		0
	FILTER 5		0
	BURNOUT5		NONE



# UDC 3500 Application Note

<b>CONTROL</b>	<b>PV SOURC</b>	<b>INPUT 1</b>	INPUT 1
	<b>PID SETS</b>	<b>1 ONLY</b>	1 ONLY
	SW VAL12		0
	SW VAL23		0
	SW VAL34		0
	<b>LSP'S</b>	<b>TWO</b>	1 ONLY
	<b>RSP SRC</b>	<b>INPUT 2</b>	NONE
	<b>AUTOBIAS</b>	<b>DISABLE</b>	DISABLE
	<b>SP TRACK</b>	<b>RSP</b>	NONE
	<b>PWR MODE</b>	<b>AM SP</b>	MANUAL
	PWR OUT		LAST
	<b>SP HiLIM</b>	<b>100</b>	1000
	<b>SP LoLIM</b>	<b>0</b>	0
	<b>ACTION</b>	<b>REVERSE</b>	
	<b>OUT RATE</b>	<b>DISABLE</b>	DISABLE
	PCT/M UP		0
	PCT/M DN		0
	<b>OUTHILIM</b>	<b>100</b>	
	<b>OUTLoLIM</b>	<b>0</b>	0.0
	<b>I Hi LIM</b>	<b>100</b>	100
	<b>I Lo LIM</b>	<b>0</b>	0
	<b>DROPOFF</b>	<b>0</b>	0
	DEADBAND		1.0
	OUT HYST		0.5
	<b>FAILMODE</b>	<b>NO LATCH</b>	
	<b>FAILSAFE</b>	<b>20</b>	0.0
	SW FAIL		0
	<b>MAN OUT</b>	<b>0</b>	0
	<b>AUTO OUT</b>	<b>0</b>	0
	<b>PBorGAIN</b>	<b>GAIN</b>	GAIN
	<b>MINorRPM</b>	<b>MIN</b>	MIN
<b>CONTROL2</b>	PV 2SRC		INPUT 2
	LINK LPS		DISABLE
	PID SETS		1 ONLY
	SW VAL 12		0
	SW VAL23		0
	SW VAL34		0
	LSP'S		1 ONLY
	RSP SRC		NONE
	AUTOBIAS		DISABLE
	SP TRACK		NONE
	PWRMODE		MANUAL
	SP HiLIM		1000
	SP LoLIM		0
	ACTION		REVERSE
	OUT RATE		DISABLE
	PCT/M UP		0
	PCT/M DN		0
	OUTHILIM		100
	OUTLoLIM		0
	I Hi LIM		100.0
	I Lo LIM		0.0
	DROPOFF		0
	DEADBAND		1.0
	FAILMODE		NO LATCH
	FAILSAFE		0



# UDC 3500 Application Note

<b>OPTIONS</b>	<b>CUR OUT2</b>	<b>DISABLE</b>	DISABLE
	C2RANGE		4-20mA
	LOW VAL		0
	HIGH VAL		100
	CUR OUT3		DISABLE
	C3RANGE		4-20Ma
	LOW VAL		0
	HIGH VAL		100
	<b>DIG1 INP</b>	<b>MANUAL F SAFE</b>	NONE
	<b>DIG1 COMB</b>	<b>DISABLE</b>	DISABLE
	<b>DIG INP2</b>	<b>NONE</b>	NONE
	<b>DIG2 COMB</b>	<b>DISABLE</b>	DISABLE
	<b>DIG INP3</b>	<b>NONE</b>	NONE
	<b>DIG INP4</b>	<b>NONE</b>	NONE
	Dion LP2		NONE
<b>COM</b>	<b>Com ADDR</b>	<b>3</b>	3
	<b>ComSTATE</b>	<b>DISABLE</b>	
	<b>IR ENABLE</b>	<b>ENABLE</b>	DISABLE
	<b>BAUD</b>	<b>19200</b>	19200
	TX DELAY		1
	WSFLOAT		FP B
	<b>SHEDENAB</b>		DISABLE
	SHEDTIME		0
	SHEDMODE		LAST
	SHEDSP		TO LSP
	UNITS		PERCENT
	CSP RATO		1.0
	CSP BIAS		0
	CSP2RATO		1.0
	CSP2BIAS		0
	LOOPBACK		DISABLE
<b>ALARMS</b>	<b>A1S1TYPE</b>	<b>REMS</b>	NONE
	A1S1 VAL		90
	A1S1 H L		HIGH
	A1S1 EV		--
	<b>A1S2 TYPE</b>	<b>NONE</b>	NONE
	A1S2 VAL		10
	A1S2 H L		LOW
	A1S2 EV		--
	ALHYST1		0.1
	<b>A2S1TYPE</b>	<b>NONE</b>	NONE
	A2S1 VAL		95
	A2S1 H L		HIGH
	A2S1 EV		--
	<b>A2S2TYPE</b>	<b>NONE</b>	NONE
	A2S2 VAL		5
	A2S2 H L		LOW
	A2S2 EV		--
	ALHYST2		0.1
	<b>A3S1TYPE</b>	<b>NONE</b>	NONE
	A3S1 VAL		95
	A3S1 H L		HIGH
	A3S1 EV		--
	<b>A3S2TYPE</b>	<b>NONE</b>	NONE
	A3S2 VAL		5
	A3S2 H L		LOW
	A3S2 EV		--
	ALHYST3		0.1
	<b>A4S1TYPE</b>	<b>NONE</b>	NONE





# UDC 3500 Application Note

	A4S1 VAL		95
	A4S1 H L		HIGH
	A4S1 EV		--
	A4S2TYPE	NONE	NONE
	A4S2 VAL		5
	A4S2 H L		LOW
	A4S2 EV		--
	ALHYST4		0.1
	ALM OUT1	NO LATCH	NO LATCH
	BLOCK	DISABLE	DISABLE
	DIAGNOST	DISABLE	DISABLE
	ALRM MSG	DISABLE	DISABLE
CLOCK	HOURS		SET TO FACTORY TIME
	MINUTES		" " " "
	SECONDS		" " " "
	YEAR		" " " "
	MONTH		" " " "
	DAY		" " " "
	SET CLK?		" " " "
	ADJUST		0
MAINTNCE	TIME 1		DISABLE
	TIME 2		DISABLE
	TIME 3		DISABLE
	COUNT 1		DISABLE
	COUNT 2		DISABLE
	COUNT 3		DISABLE
	PASSWORD		0
	RES TYPE		NONE
DISPLAY	DECIMAL	ONE	XXXX
	DECIMAL2		XXXX
	TEMPUNIT	NONE	NONE
	PWR FREQ	60 HZ	60 HZ
	RATIO 2	DISABLE	DISABLE
	LANGUAGE	ENGLISH	ENGLISH
TIME EVENTS	IDNUMBER	0	0
	EVENT 1		NONE
	TIME 1		--
	HOURL 1		--
	MINUTE 1		--
	MONTH 1		--
	DAY 1		--
	EVENT 2		NONE
	TIME 2		--
	HOURL 2		--
	MINUTE2		--
	MONTH 2		--
	DAY 2		--
ETHERNET AND EMAIL (Accessible via PIE Tool)	MAC Address		(case label on instrument)
	IP Address		10.0.0.2
	Subnet Mask		255.255.255.0
	Default Gateway		0.0.0.0
	SMTP Address (for Outgoing)		0.0.0.0
	To Email 1		--
	From Email 1		--
	To Email 2		--
	From Email 2		--