

# HEATEC TEC-NOTE

Publication No. 9-06-178, Revised 6-1-09

## Setting Honeywell UDC2500 controllers used with Heatec vertical fuel tanks

NOTICE: This Tec-Note applies to controllers used with pressure transmitters installed August 21, 2006 and thereafter. Heatec Tec-Note 7-05-168 applies to controllers for transmitters installed *prior* to that date.

This document provides information for setting Honeywell controllers **DC2500-EE-1000-200-00000-00-0** (**Figure 1**) when used to indicate levels in Heatec fuel tanks (**Figure 2**). It applies to Heatec vertical fuel tanks equipped with Siemens Sitrans P, Series DSIII pressure transmitters installed after August 21, 2006.

The level indications on the controller match those shown on the display built into the pressure transmitter. However, the controller shows only one digit after the decimal point.

The controller automatically activates an alarm *circuit* when the tank is 90 percent full. The controller also activates an alarm *circuit* when the *indicated* level is 24 inches.



Figure 1. Honeywell Controller  
DC2500-EE-1000-200-00000-00-0.

Honeywell controllers purchased from Heatec are normally set at our factory and require no further setup. However, the controller can be reset in the field using the information shown in **Figure 3**.

A Honeywell UDC Controller Manual is on a CD furnished with each controller. If you need instructions on how to use the buttons on the controller you will find them in this manual.

Please refer to Heatec Tec-Note, Publication 9-06-177 for more information on levels and the Siemens pressure transmitter.



Figure 2. Heatec vertical fuel tank.

**Figure 3. Honeywell Controller DC2500-EE-1000-200-00000-00-0 used with vertical fuel tanks.**

Setup button	Function button	Make these settings (Use up/down buttons)									
		5000 gallon tank	6,500 gallon tank	10,000 gallon tank	13,000 gallon tank	15,000 gallon tank	20,000 gallon tank	23,000 gallon tank	25,000 gallon tank	30,000 gallon tank	35,000 gallon tank
TUNING	CYC T1	1	1	1	1	1	1	1	1	1	1
	SECUR	0	0	0	0	0	0	0	0	0	0
	LOCK	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL
SPRAMP	SPRAMP	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS
ALGOR	CTRALG	ONOF	ONOF	ONOF	ONOF	ONOF	ONOF	ONOF	ONOF	ONOF	ONOF
	TIMER	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS
OUTALG	OUTALG	RLY	RLY	RLY	RLY	RLY	RLY	RLY	RLY	RLY	RLY
INPUT1	IN1TYP	4-20	4-20	4-20	4-20	4-20	4-20	4-20	4-20	4-20	4-20
	XMITR1	LIN	LIN	LIN	LIN	LIN	LIN	LIN	LIN	LIN	LIN
	IN1 HI	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
	IN1 LO	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	RATIO1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	BIAS 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	FILTR1	1	1	1	1	1	1	1	1	1	1
	BRNOUT	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
CONTRL	LSP'S	ONE	ONE	ONE	ONE	ONE	ONE	ONE	ONE	ONE	ONE
	SP TRK	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
	PWR UP	ALSP	ALSP	ALSP	ALSP	ALSP	ALSP	ALSP	ALSP	ALSP	ALSP
	SP Hi	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	SP Lo	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	ACTION	REV	REV	REV	REV	REV	REV	REV	REV	REV	REV
	HYST	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	FAILSF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OPTION	AUXOUT	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1
	0 PCT	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	100PCT	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
	CRANGE	4-20	4-20	4-20	4-20	4-20	4-20	4-20	4-20	4-20	4-20
	DIGIN1	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
COM	ComADR	3	3	3	3	3	3	3	3	3	3
	ComSTA	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS
	IRENAB	ENAB	ENAB	ENAB	ENAB	ENAB	ENAB	ENAB	ENAB	ENAB	ENAB
	BAUD	19.2K	19.2K	19.2K	19.2K	19.2K	19.2K	19.2K	19.2K	19.2K	19.2K
	TX DLY	1	1	1	1	1	1	1	1	1	1
ALARMS	A1S1TY	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1
	A1S1VA	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
	A1S1HL	LOW	LOW	LOW	LOW	LOW	LOW	LOW	LOW	LOW	LOW
	A1S2TY	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
	A2S1TY	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1	IN 1
	A2S1VA	86.00	108.0	165.0	216.0	251.0	316.0	378.0	402.0	467.0	532.0
	A2S1HL	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
	A2S2TY	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
	ALHYST	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	ALARM1	NO L	NO L	NO L	NO L	NO L	NO L	NO L	NO L	NO L	NO L
	BLOCK	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS
	DIA AL	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS	DIS
DISPLY	DECMAL	ONE	ONE	ONE	ONE	ONE	ONE	ONE	ONE	ONE	ONE
	TUNITS	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
	FREQ	60	60	60	60	60	60	60	60	60	60
	DISPLY	PR N	PR N	PR N	PR N	PR N	PR N	PR N	PR N	PR N	PR N
	LNGUAG	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL	ENGL

**Setting sequence: ALGOR, INPUT1, CONTRL, OPTION, COM, ALARMS, DISPLY, TUNING, SPRAMP, OUTALG.**

**NOTE: Data changed in the revision of 6-1-09 are shaded in green.**