HEATEC TEC-NOTE

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Setting Honeywell UDC2500 controllers used with Heatec vertical fuel tanks

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.

The controller indicates levels of fuel in the tank. Levels are shown in feet and tenths of a foot, measured above the level where the transmitter is installed. The transmitter is installed 1.33 feet (16 inches) above the bottom of the tank. Thus, there are approximately 941 gallons of fuel in the tank when the controller indicates zero.

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 2 feet.

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 5-04-115 for more information on levels and the Siemens pressure transmitter.

Figure 2. Heatec vertical fuel tank.

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

Setup button	Function button	Make these settings (Use up/down buttons)			
		6,500 gallon tank	13,000 gallon tank	20,000 gallon tank	23,000 gallon tank
TUNING	CYC T1	1	1	1	1
	SECUR	0	0	0	0
	LOCK	CAL	CAL	CAL	CAL
SPRAMP	SPRAMP	DIS	DIS	DIS	DIS
ALGOR	CTRALG	ONOF	ONOF	ONOF	ONOF
	TIMER	DIS	DIS	DIS	DIS
OUTALG	OUTALG	RLY	RLY	RLY	RLY
INPUT1	IN1TYP	4-20	4-20	4-20	4-20
	XMITR1	LIN	LIN	LIN	LIN
	IN1 HI	40.00	40.00	40.00	40.00
	IN1 LO	0.00	0.00	0.00	0.00
	RATIO1	1.00	1.00	1.00	1.00
	BIAS 1	0.0	0.0	0.0	0.0
	FILTR1	1	1	1	1
	BRNOUT	NONE	NONE	NONE	NONE
CONTRL	LSP'S	ONE	ONE	ONE	ONE
	SP TRK	NONE	NONE	NONE	NONE
	PWR UP	ALSP	ALSP	ALSP	ALSP
	SP Hi	0.00	0.00	0.00	0.00
	SP Lo	0.00	0.00	0.00	0.00
	ACTION	REV	REV	REV	REV
	HYST	100.0	100.0	100.0	100.0
	FAILSF	0.0	0.0	0.0	0.0
OPTION	AUXOUT	IN 1	IN 1	IN 1	IN 1
	0 PCT	0.0	0.0	0.0	0.0
	100PCT	40.00	40.00	40.00	40.00
	CRANGE	4-20	4-20	4-20	4-20
	DIGIN1	NONE	NONE	NONE	NONE
COM	ComADR	3	3	3	3
	ComSTA	DIS	DIS	DIS	DIS
	IRENAB	ENAB	ENAB	ENAB	ENAB
	BAUD	19.2K	19.2K	19.2K	19.2K
	TX DLY	1	1	1	1
ALARMS	A1S1TY	IN 1	IN 1	IN 1	IN 1
	A1S1VA	2.00	2.00	2.00	2.00
	A1S1HL	LOW	LOW	LOW	LOW
	A1S2TY	NONE	NONE	NONE	NONE
	A2S1TY	IN 1	IN 1	IN 1	IN 1
	A2S1VA	9.00	18.00	27.00	31.50
	A2S1HL	HIGH	HIGH	HIGH	HIGH
	A2S2TY	NONE	NONE	NONE	NONE
	ALHYST	0.1	0.1	0.1	0.1
	ALARM1	NO L	NO L	NO L	NO L
	BLOCK	DIS	DIS	DIS	DIS
	DIA AL	DIS	DIS	DIS	DIS
DISPLY	DECMAL	ONE	ONE	ONE	ONE
	TUNITS	NONE	NONE	NONE	NONE
	FREQ	60	60	60	60
	DISPLY	PR N	PR N	PR N	PR N
	LNGUAG	ENGL	ENGL	ENGL	ENGL

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