

HEATEC TEC-NOTE

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Setting Honeywell controllers used with Heatec vertical fuel tanks

This document provides information for setting Honeywell controllers DC230B-EE-20-10-0A00000-00-0 (**Figure 1**) when used to indicate levels in Heatec fuel tanks. 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, 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 when the tank is 90 percent full. The controller also activates an alarm when the level is at zero.

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 2**.

Honeywell UDC 2300 Universal Digital Controller User Manual is furnished with each controller. Please refer to this manual for instructions on using the buttons to set the controller.

Please refer to Heatec Tec-Note, Publication 5-04-115 for more information on levels and the Siemens pressure transmitter.



Figure 1. Honeywell Controller DC230B-EE-20-10-0A00000-00-0.

Figure 2. Settings for Honeywell Controller DC230B-EE-20-10-0A00000-00-0 used with Heatec vertical fuel tanks.

Group Prompt	Function Prompt	Capacity (gallons) of Heatec vertical fuel tanks			
		6,500	13,000	20,000	23,000
TIMER	TIMER	DIS	DIS	DIS	DIS
TUNING	CYCT1 or CT1 X3	1	1	1	1
	SECUR	0	0	0	0
	LOCK	NONE	NONE	NONE	NONE
	A TUNE	DIS	DIS	DIS	DIS
	RN HLD	DIS	DIS	DIS	DIS
	SP SEL	DIS	DIS	DIS	DIS
SPRAMP	SPRAMP	DIS	DIS	DIS	DIS
ATUNE	FUZZY	DIS	DIS	DIS	DIS
	TUNE	DIS	DIS	DIS	DIS
ALGOR	CTRALG	ONOF	ONOF	ONOF	ONOF
	OUTALG	RLY	RLY	RLY	RLY
	RLY TY	MECH	MECH	MECH	MECH
INPUT1*	DECIMAL	888.8	888.8	888.8	888.8
	UNITS	NONE	NONE	NONE	NONE
	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	1.0	1.0	1.0	1.0
	BIAS 1	0.0	0.0	0.0	0.0
	FILTR1	1	1	1	1
	BRNOUT	NONE	NONE	NONE	NONE
	FREQ	60	60	60	60
	DISPLY	PR N	PR N	PR N	PR N
	LNGUAG	ENGL	ENGL	ENGL	ENGL
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	IN1	IN1	IN1	IN1
	0 PCT	0.0	0.0	0.0	0.0
	100 PCT	40.0	40.0	40.0	40.0
ALARMS	A1S1VA	2.00	2.00	2.00	2.00
	A2S1VA	9.00	18.00	27.00	31.50
	A1S1TY	IN 1	IN 1	IN 1	IN 1
	A1S2TY	NONE	NONE	NONE	NONE
	A2S1TY	IN 1	IN 1	IN 1	IN 1
	A2S2TY	NONE	NONE	NONE	NONE
	A1S1HL	LOW	LOW	LOW	LOW
	A2S1HL	HIGH	HIGH	HIGH	HIGH
	ALHYST	0.1	0.1	0.1	0.1
	ALARM1	NO L	NO L	NO L	NO L
	BLOCK	DIS	DIS	DIS	DIS

Make settings in the following order: ALGOR, INPUT1, CONTROL, OPTION, ALARMS, TIMER, TUNING, SPRAMP, ATUNE

***Make sure group prompt INPUT1 is in SET Up mode (not CAL mode).**