Monsanto	INSTRUMENT FUNCTION OUTLINE	CED LOOP NO. LIA-329-1	
	PLANT W. G. Krummrich	ISSUED BY C. J. Hans DATE 7/29/71	PLANT LOOP NO.
DIVISION Organic	BLDG/DEPT 811.00 / AUTH NO. 2417	REV. BY / DATE	REV / SHEET 1 OF

NO. 2 INTERMEDIATE STORAGE LEVEL

1.0 NEED FOR LOOP

The still pot is both batch charged and "chain" fed with Aroclors in this tank. Accurate level measurement is essential for this very active in-process tank for smooth refining operations.

1.1 DESCRIPTION OF LOOP

1.1.1 Function

The function of this loop is to measure and indicate the level of material and to alarm on high level.

1.1.2 System Performance Required

1.1.3 Accomplishment of Function

A diaphragm type level transmitter senses the liquid level in the tank and sends a proportional 3-15 psig air signal to a 0-100% indicator on the panel and also one near the transmitter. This signal is also sent to a pressure switch which actuates an alarm on high level.

PCB-ARCH-EXT0374056

Per 8*
4*
5*

Monsanto COMPANY	*DIFFERENTIAL PRESSURE *INSTRUMENT SPECIFICATIONS	DIVISION 002	PLANT WGK	*SPEC NO. IS-2417-32
LOCATION WGK		AUTH NO. 2417	DEPT OR AREA 246	SHEET 3 OF 5 REV 0

1	Instrument No. 2417 -			LIA-329-1										
	Service			LEVEL										
				INDICATOR										
	Equipment No. or Line No. & Size			-329-										
	Process Material			AROCLOR										
3	CASE	Blind, Indicating, Record, Control, Transmit		IDICATING										
		Mounting: Flush, Surface Yoke		NOZZLE										
		CHART	Size and Type											
			Range											
			Drive / Speed											
		SCALE	Size & Type	3-15 PSIG LOCAL PRESS GAGE										
			Range	0-100 LIN										
	DIFFERENTIAL UNIT	Flow, Level, Pressure		LEVEL										
		Bellows, Diaphragm, Other		DIAPHRAGM										
7*		*Span & Units		344" W.C.										
		Range Limits		200" TO 850"										
		Body Rating @ 60°F		180 PSIG										
6*		*Body Material		C.S.										
		Element Material		316 SS										
		Wetted Parts Material		C.S. & 316 SS										
		Extended Diaph. Length		—										
		Fluid Sp. Gr.		1.25										
	SIGNALS	PROCESS INPUT	Liquid, Gas, Cond. Vapor	LIQUID										
			Operating Pressure	ATM										
		INSTRUM. OUTPUT	Range & Units	3-15 PSIG										
			To	0-100 LIN PRESS GAUGE										
		Power Supply – Electrical, Pneumatic		PNEW										
		Electrical Area Classification		WEATHER TITE										
	CONTROLLER	Proportional Band %												
		Auto-Reset Mode		NO / SLOW / FAST		NO / SLOW / FAST		NO / SLOW / FAST		NO / SLOW / FAST				
		Rate Mode		YES / NO		YES / NO		YES / NO		YES / NO				
		Auto-Manual By Pass		YES / NO		YES / NO		YES / NO		YES / NO				
		On Measurement Increase Instrument Output		INC. / DEC		INC. / DEC		INC. / DEC		INC. / DEC				
		Pipe & Mt'd Air Supply Reg.		YES / NO		YES / NO		YES / NO		YES / NO				
		Output Gage, 3½" Size		YES / NO		YES / NO		YES / NO		YES / NO				
	REMARKS	Accessories or Special Features												
		FLANGE, 3" - 150# R.F.		YES										
		AIR SUPPLY SET, 2" GAGE		B-110-2M P-102-YN										
		OUTPUT GAGE 0-100 LIN		YES										
				SET ZERO										
				with 4" W.C. ON										
				HIGH SIDE										
2	PURCH.	Manufacturer		FOXBORO										
		Catalog No.		13FA1-HK 315										
		P.O. No.		0038										
		Price		$400										

REV. DATE								
0	PREPARED	EHJ	12/23/70	4				
1	REVISED	CJH	7/30/71	5				
2				6				
3				7				

ES 117 (10/66)

PCB-ARCH-EXT0374057

Monsanto	INSTRUMENT FUNCTION OUTLINE		CED LOOP NO. LIA-329-1		
	PLANT W. G. Krummrich		ISSUED BY C. J. Hans DATE 7/29/71		PLANT LOOP NO.
DIVISION Organic	BLDG/DEPT 811.00	AUTH NO. 2417	REV. BY	DATE	REV / SHEET OF

3.0 OPERATION

3.1 NORMAL OPERATION

Typical level loop.

3.2 INTERLOCKS

None.

3.3 ABNORMAL OPERATIONS

3.3.1 Air Failure

Air failure to the loop will cause loss of indication.

3.3.2 Power Failure

Loss of power will cause alarm to be inoperative.

NOTE: The zero of level transmitter should be set after N_2 blanketing system is in operation. N_2 enters and is regulated @ 4" W.C. and relieves at 7" W.C. Since the low side is not compensated, it will be necessary to run the zero elevated @ almost 5" W.C.

ES 141
8/69)

PCB-ARCH-EXT0374058