

---

---

# COX

Research and Technology, Inc.

---

---

## DUPLEX PUMP CONTROL PANEL

Cox Research and Technology, Inc.  
14697 S. Harrells Ferry Road  
Baton Rouge, LA. 70816  
(225) 756-3271 Fax (225) 755-1030

CP-1830r2

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	2	
HP	5	
FLA	39	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	BARNES	
CATALOG NUMBER	SGVF5022L-MS	

CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Opti-Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

OPTIONS:

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS		
GROUND FAULT RECPT.	X	
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

SOLD TO: Delta Process - Bossier City, LA

TAG : \_\_\_\_\_

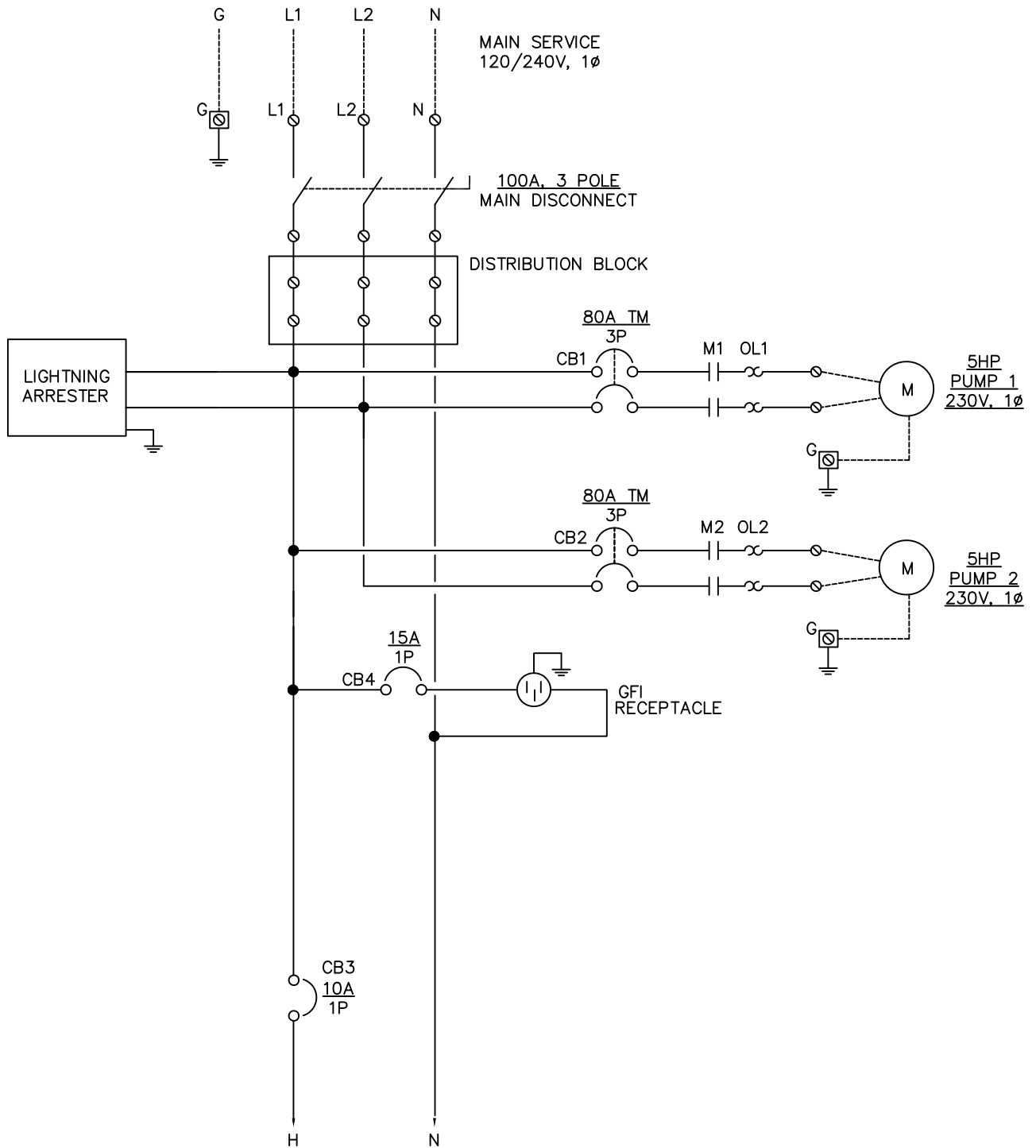
\_\_\_\_\_

SHIP TO: Delta Process - Ruston, LA

\_\_\_\_\_

\_\_\_\_\_

	Drawing Title		R2	Opti-Float		7/29/09	NHB	
	PANEL DESCRIPTION							
DATE 7/29/09		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY J.HEUGHAN	APPROVED BY	DATE	BY
		Project Title		<div style="text-align: center;"> <b>COX</b>  Research and Technology, Inc. </div>		P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1830r2 SHEET NUMBER 1
	DUPLEX PUMP CONTROL PANEL							



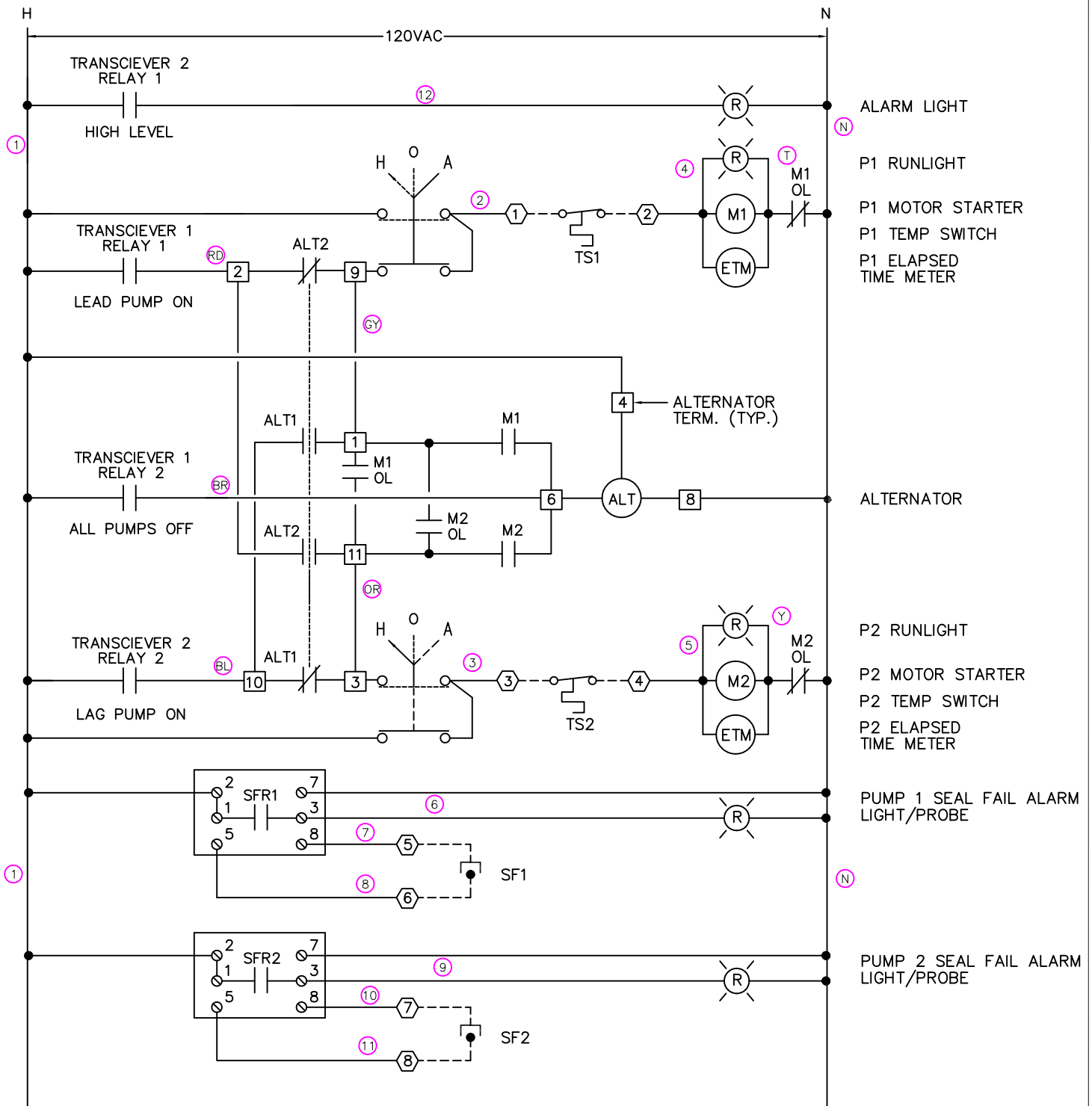
	Drawing Title		R2	Opti-Float		7/29/09	NHB
	POWER DIAGRAM						
DATE 7/29/09		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
	Project Title	S/N	Sales Engineer C.C.	Application Engineer R.C.	BY J.HEUGHAN	APPROVED	
	DUPLEX PUMP CONTROL PANEL					PURCHASE ORDER NUMBER	
						DRAWING NUMBER CP-1830r2	
						SHEET NUMBER	2

**COX**

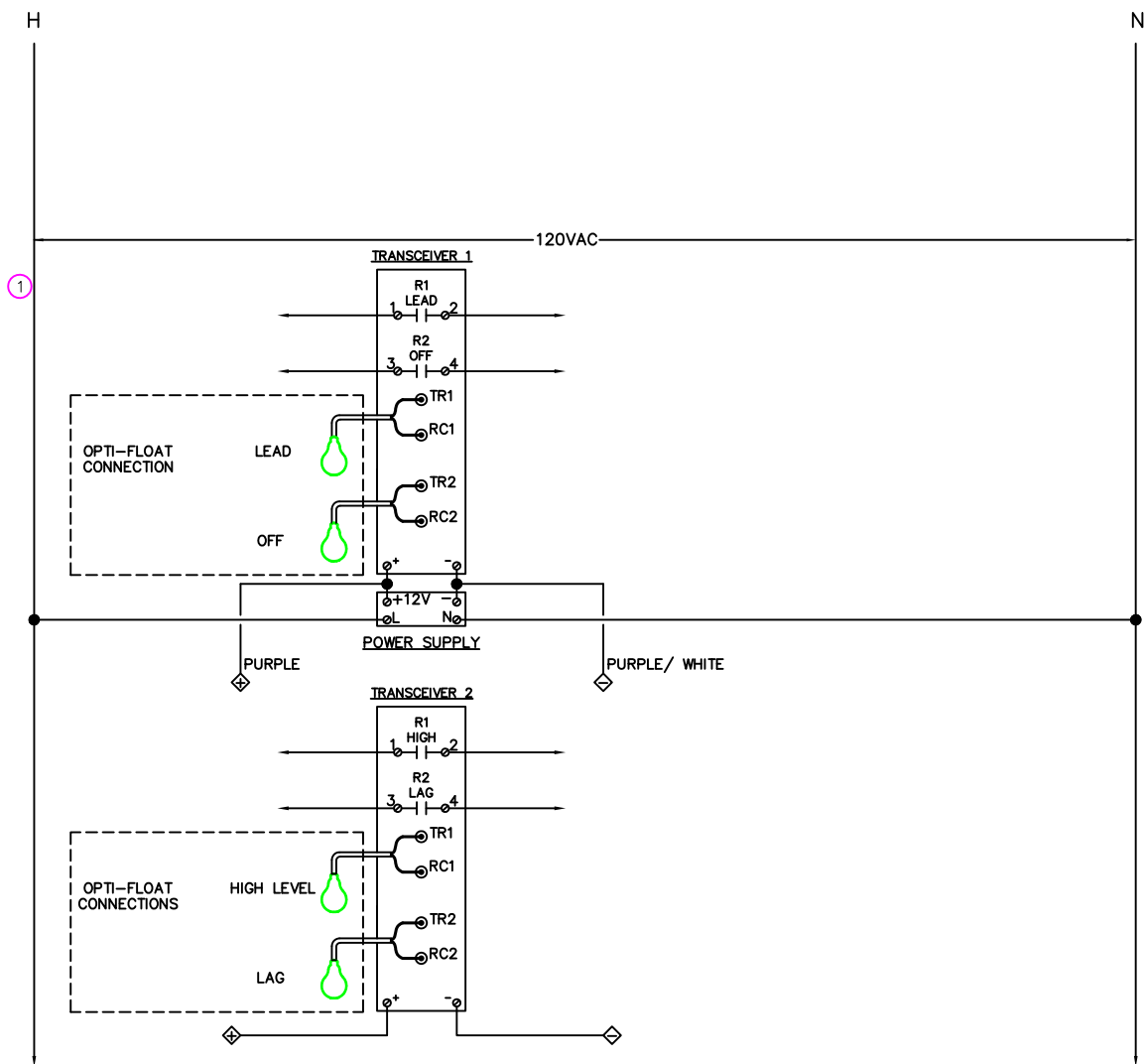
Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809

Ph. (225)756-3271  
Fax (225)756-1030



	Drawing Title	R2	Opti-Float	7/29/09	NHB
	CONTROL DIAGRAM				
DATE	7/29/09	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN
		S/N	Sales Engineer	Application Engineer	DATE
			C.C.	R.C.	BY
	Project Title			BY J.HEUGHAN	APPROVED
	DUPLEX PUMP CONTROL PANEL				DATE
					PURCHASE ORDER NUMBER
					DRAWING NUMBER
					CP-1830r2
					SHEET NUMBER
					3



	Drawing Title		R2	Opti-Float		7/29/09	NHB
	CONTROL DIAGRAM						
DATE 7/29/09		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
	Project Title	DRAWN BY J.HEUGHAN			APPROVED BY DATE		
	DUPLEX PUMP CONTROL PANEL	PURCHASE ORDER NUMBER					
		DRAWING NUMBER CP-1830r2					
		SHEET NUMBER			4		



## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	ABB	OT100E3	MAIN DISC. SWITCH
3	2	ABB	A40-30-10-84	MOTOR STARTER
4	2	ABB	TA42DU42	O.L. RELAY (29-42A)
5	2	SQUARE D	QOU280	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	R40-XLS	ALARM LIGHT
10	1	MARATHON	1323580	DISTRIBUTION BLOCK
11	2	REDINGTON	711-0190	ELAPSED TIME METER
12	1	SQUARE D	QOU115	CB4
13	1	STOCK		GFI
14	2	SSAC	LLC54AA	SEAL FAIL RELAY
15	1	DELTA	LA302R	LIGHTNING ARRESTER
16	2	COX RESEARCH	OPTI-TR2	TRANSCEIVER
17	4	COX RESEARCH	OPTI-F130-WT1	(30' CORD) OPTI-FLOATS
18	1	ABB	1SVR427041R1000	POWER SUPPLY
19	1	SQUARE D	QOU110	CB3
20				
21				
22				
23				
24				
25				

	Drawing Title		R2	Opti-Float		7/29/09	NHB	
	BILL OF MATERIALS							
DATE 7/29/09		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY J.HEUGHAN	ECN	DATE	BY
		<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 100px;"> <b>COX</b>  <small>Research and Technology, Inc.</small> </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1830r2  SHEET NUMBER <div style="text-align: right;">6</div>	
	Project Title							
	DUPLEX PUMP CONTROL PANEL							