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		INSTRUM	MENT LIST				<u> </u>				
TAG		Pl&D	EQUIPMENT	SKID	P	ILOT FLAME THERMOCOUF (SUPPLIED BY FLARGE		, Alexandre and A			
TE-001A/6		1272-F-PI-001	FL-3403	-	-						
TE-002A/8	В	1272-F-PI-001	FL-3403	-	-						
					-						
					-					MOCOUPLE JB	
									(BY C	DTHERS)	
							↓ E	Į.		ARE TIP FLAME IERMOCOUPLE	
										UPPLIED BY FLARGEN	IT)
							ЪЩ		SBWW / FLARGE	ENT	
									· +		
							₩.		BY OTHERS		
									*		
									2 P	AIRS THERMOCOUPLE	-
								· ·	EXTE	ENSION WIRE TION: 1×2×20AWG EA	
							-		LEN	IGTH: 4 CABTYRES OF mts	
Note 1: mate	rials f	or wire routing between t	hermocouple junction box and	d ACL controller box	will be provided					OTHERS)	
by ot	thers						'				
by ot	thers					Conduit 1" (e	BY OTHERS)				
by ot	thers					conduit 1" (e	BY OTHERS)			NO N/75	
by ot	thers					conduit 1" (e	BY OTHERS)			N2.N75	
by of	1	UNION FEMALE-FEMALE, CERTIFICATE: Ex(d) IIB+H	3/4"—NPT. MATERIAL: GALVAI 12	NIZED STEEL	SBWW / FLARGENT	Conduit 1" (e	BY OTHERS)			17.N2.F	TO IGNITION B
F	1	CERTIFICATE: Ex(d) IIB+H	12 PT. MATERIAL: GALVANIZED ST		SBWW / FLARGENT SBWW / FLARGENT	Conduit 1" (e	BY OTHERS)				
17.N2.F	1	CERTIFICATE: Ex(d) IIB++ REDUCER, 1" x 3/4"-NI CSA - EXPLOSION PROC REDUCER, 3/4" x 1/2'	i2 PT. MATERIAL: GALVANIZED ST)F '–NPT. MATERIAL: GALVANIZED	TEEL. CERTIFICATE:	,	Conduit 1" (e	BY OTHERS)			17.N2.F	
17.N2.F 16.N32	1	CERTIFICATE: Ex(d) IIB++ REDUCER, 1" x 3/4"-N CSA - EXPLOSION PROC	i2 PT. MATERIAL: GALVANIZED ST)F '–NPT. MATERIAL: GALVANIZED	TEEL. CERTIFICATE:	SBWW / FLARGENT	Conduit 1" (e	BY OTHERS)	16.N.21		17.N2.F (14.N2.M.1000)	SEE PAGE 4
17.N2.F 16.N32	1	CERTIFICATE: Ex(d) IIB+H REDUCER, 1" × 3/4"-N CSA – EXPLOSION PROC REDUCER, 3/4" × 1/2" CERTIFICATE: CSA – EX	i2 PT. MATERIAL: GALVANIZED ST)F '–NPT. MATERIAL: GALVANIZED	TEEL. CERTIFICATE:	SBWW / FLARGENT	CONDUIT 1" (E	BY OTHERS)	16.N.21		17.N2.F	SEE PAGE 4
17.N2.F 16.N32 16.N.21	1 1 1 1 1	CERTIFICATE: Ex(d) IIB+H REDUCER, 1" × 3/4"-NI <u>CSA – EXPLOSION PROC</u> REDUCER, 3/4" × 1/2" CERTIFICATE: CSA – EX NIPLE, 3/4 ⁴ ×3 ^{*1} (g), NPT.	42 PT. MATERIAL: GALVANIZED ST)F '-NPT. MATERIAL: GALVANIZED PLOSION PROOF MATERIAL: GALVANIZED STEEI	TEEL. CERTIFICATE: D STEEL.	SBWW / FLARGENT	Conduit 1" (e	BY OTHERS)		IS.	17.N2.F 14.N2.M.1000	SEE PAGE 4
17.N2.F 16.N32 16.N.21 15.N2.N75	1 1 1 1 1	CERTIFICATE: EX(d) IIB+H REDUCER, 1" × 3/4"-NI CSA – EXPLOSION PROC REDUCER, 3/4" × 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4"(×3"19), NPT. GALVANIZED, STEEL CORR	42 PT. MATERIAL: GALVANIZED ST P-NPT. MATERIAL: GALVANIZED PLOSION PROOF MATERIAL: GALVANIZED STEEI (UGATED ELEXIBLE COUPLING	TEEL. CERTIFICATE:	SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT	Conduit 1" (e	BY OTHERS)			17.N2.F 14.N2.M.1000 CONDUIT (SEE PAG	SEE PAGE 4
17.N2.F 16.N32 16.N.21	1 1 1 1 1 1 1 1	CERTIFICATE: EX(d) IIB+H REDUCER, 1" × 3/4"-NI CSA – EXPLOSION PROC REDUCER, 3/4" × 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4 × 3"lg. NPT. GALVANIZED STEEL CORR STEEL BRADED COVER,	42 PT. MATERIAL: GALVANIZED ST)F '-NPT. MATERIAL: GALVANIZED PLOSION PROOF MATERIAL: GALVANIZED STEEI	TEEL. CERTIFICATE: D STEEL. L 2 WITH STAINLESS INGITUD: 1000mm.	SBWW / FLARGENT	Conduit 1" (e	BY OTHERS)	FLA	ARGENT / SBWW	17.N2.F 14.N2.M.1000 CONDUIT (SEE PAG	SEE PAGE 4
17.N2.F 16.N32 16.N.21 15.N2.N75	1 1 1 1 1 1 1 1 1	CERTIFICATE: EX(d) IIB+H REDUCER, 1" × 3/4"-NI CSA – EXPLOSION PROC REDUCER, 3/4" × 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4" × 3"(g), NPT. GALVANIZED STEEL CORF STEEL BRAIDED COVER, MALE-MALE ENDS. CERT ACL CONTROLLER BOX -	42 PT. MATERIAL: GALVANIZED ST P-NPT. MATERIAL: GALVANIZED PLOSION PROOF MATERIAL: GALVANIZED STEEI UGATED FLEXIBLE COUPLING LIQUIDTIGHT, 3/4"-NPTM. LO IFICATE: CSA - EXPLOSION F - 12/24 VDC. WITH TWO 2	TEEL. CERTIFICATE: D STEEL. (L 2) WITH STAINLESS INGITUD: 1000mm. PROOF	SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT	9.P.1 - CONT	TROL PANEL	FLA	ARGENT / SBWW	17.N2.F 14.N2.M.1000 CONDUIT (SEE PAG 16.N32	SEE PAGE 4
17.N2.F 16.N32 16.N.21 15.N2.N75	1 1 1 1 1	CERTIFICATE: EX(d) IIB+H REDUCER, 1" x 3/4"-NI CSA – EXPLOSION PROC REDUCER, 3/4" x 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4" x 3"Ig, NPT. GALVANIZED STEEL CORR STEEL BRADED COVER, MALE-MALE ENDS. CERT ACL CONTROLLER BOX - (MINIMUM) FOR THERMOG ACCESS FOR POWER CAI	12 PT. MATERIAL: GALVANIZED ST P-NPT. MATERIAL: GALVANIZED PLOSION PROOF MATERIAL: GALVANIZED STEEI UQUIDTIGHT, 3/4"-NPTM. LO ICUIDTIGHT, 3/4"-NPTM. LO IFICATE: CSA - EXPLOSION F - 12/24 VDC. WITH TWO J COUPLE AND IGNITION POWER BLE. WITH POWER SUPPLY 11	TEEL. CERTIFICATE: D STEEL. L 2 WITH STAINLESS NGITUD: 1000mm. PROOF NPT ACCESSES C CABLE & 1"	SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT	9.P.1 - CONT ACL CONTR WITH POW	TROL PANEL NOLLER BOX FER SUPPLY	FLA	ARGENT / SBWW	17.N2.F 14.N2.M.1000 CONDUIT (SEE PAG 16.N32 CONDUIT ABLE 24V. SECTION - 2X2,5mm ² +GND	SEE PAGE 4
17.N2.F 16.N32 16.N.21 15.N2.N75 14.N2.M.1000	1 1 1 1 1	CERTIFICATE: Ex(d) IIB+H REDUCER, 1" × 3/4"-N CSA – EXPLOSION PROC REDUCER, 3/4" × 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4 [*] × 3 [*] 1g, NPT. GALVANIZED STEEL CORR MALE-MALE ENDS. CERT ACL CONTROLLER BOX - (MINIMUM) FOR THERMOC ACCESS FOR POWER CAI 24 VDC WEIDMÜLLER CP	42 PT. MATERIAL: GALVANIZED ST P-NPT. MATERIAL: GALVANIZED PLOSION PROOF MATERIAL: GALVANIZED STEEI UGATED FLEXIBLE COUPLING LIQUIDTIGHT, 3/4"-NPTM. LO FICATE: CSA - EXPLOSION F - 12/24 VDC. WITH TWO 2 SOUPLE AND IGNITION POWER BLE. WITH POWER SUPPLY 1: SNT 48W 12V 4A	TEEL. CERTIFICATE: D STEEL. U 2 WITH STAINLESS INGITUD: 1000mm. PROOF NPT ACCESSES R CABLE & 1" 20 VAC 60 Hz TO	SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT	9.P.1 — CONT ACL CONTR	TROL PANEL NOLLER BOX FER SUPPLY	FLA	ARGENT / SBWW	17.N2.F 14.N2.M.1000 CONDUIT (SEE PAG 16.N32 CABLE 24V. SECTION -	SEE PAGE 4
17.N2.F 16.N32 16.N.21 15.N2.N75 14.N2.M.1000	1 1 1 1 1	CERTIFICATE: EX(d) IIB+H REDUCER, 1" × 3/4"-NI CSA – EXPLOSION PROC REDUCER, 3/4" × 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4" × 3"19, NPT. GALVANIZED STEEL CORR STEEL BRAIDED COVER, MALE-MALE ENDS. CERT ACL CONTROLLER BOX - (MINIMUM) FOR THERMOC ACCESS FOR POWER CA 24 VDC WEIDMÜLLER CP JUNCTION BOX, WITH 12	12 PT. MATERIAL: GALVANIZED ST P-NPT. MATERIAL: GALVANIZED PLOSION PROOF MATERIAL: GALVANIZED STEEI UQUIDTIGHT, 3/4"-NPTM. LO ICUIDTIGHT, 3/4"-NPTM. LO IFICATE: CSA - EXPLOSION F - 12/24 VDC. WITH TWO J COUPLE AND IGNITION POWER BLE. WITH POWER SUPPLY 11	TEEL. CERTIFICATE: D STEEL. WITH STAINLESS DNGITUD: 1000mm. PROOF NPT ACCESSES R CABLE & 1" 20 VAC 60 Hz TO ZE 2,5mm2, WITH	SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT (ACL)	9.P.1 - CONT ACL CONTR WITH POW	TROL PANEL KOLLER BOX FER SUPPLY TO 24 VDC	FLA BY	ARGENT / SBWW	17.N2.F 14.N2.M.1000 CONDUIT (SEE PAGE 16.N32 CABLE 24V. SECTION 2X2.5mm ² +GND (SEE PAGE 4)	SEE PAGE 4
17.N2.F 16.N32 16.N.21 15.N2.N75 14.N2.M.1000	1 1 1 1 1	CERTIFICATE: Ex(d) IIB+H REDUCER, 1" × 3/4"-NI CSA – EXPLOSION PROC REDUCER, 3/4" × 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4 [*] × 3 [*] Ig) NPT. GALVANIZED STEEL CORR MALE-MALE ENDS. CERT ACL CONTROLLER BOX - (MINIMUM) FOR THERMOG ACCESS FOR POWER CAI 24 VDC WEIDMÜLLER CP JUNCTION BOX, WITH 12 LATERAL ACCESSES SIZE ACCESSES (MINIMUM 1)	42 PT. MATERIAL: GALVANIZED ST P-NPT. MATERIAL: GALVANIZED PLOSION PROOF MATERIAL: GALVANIZED STEEI UGATED FLEXIBLE COUPLING LIQUIDTIGHT, 3/4"-NPTM. LO FICATE: CSA - EXPLOSION F - 12/24 VDC. WITH TWO 2 SNT 48W 12V 4A CONNECTION TERMINALS, SI: 1/2"-NPT (MINIMUM 2 PER SIZE 1"-NPT. ALL NON US	TEEL. CERTIFICATE: D STEEL. WITH STAINLESS NGITUD: 1000mm. PROOF NPT ACCESSES CABLE & 1" 20 VAC 60 Hz TO ZE 2,5mm2, WITH R SIDE) AND LOWER SED ACCESSES WITH	SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT	9.P.1 - CONT ACL CONTR WITH POW	TROL PANEL NOLLER BOX FER SUPPLY	FLA	ARGENT / SBWW	17.N2.F 14.N2.M.1000 CONDUIT (SEE PAG 16.N32 CONDUIT ABLE 24V. SECTION - 2X2,5mm ² +GND	SEE PAGE 4
17.N2.F 16.N32 16.N.21 15.N2.N75 14.N2.M.1000	1 1 1 1 1 1	CERTIFICATE: Ex(d) IIB+H REDUCER, 1" × 3/4"-NI CSA – EXPLOSION PROC REDUCER, 3/4" × 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4 [*] × 3 [*] Ig) NPT. GALVANIZED STEEL CORR MALE-MALE ENDS. CERT ACL CONTROLLER BOX - (MINIMUM) FOR THERMOG ACCESS FOR POWER CAI 24 VDC WEIDMÜLLER CP JUNCTION BOX, WITH 12 LATERAL ACCESSES SIZE ACCESSES (MINIMUM 1)	12 PT. MATERIAL: GALVANIZED ST P-NPT. MATERIAL: GALVANIZED PLOSION PROOF MATERIAL: GALVANIZED STEEI UGATED FLEXIBLE COUPLING LIQUIDTIGHT, 3/4"-NPTM. LO IFICATE: CSA – EXPLOSION F - 12/24 VDC. WITH TWO 2" COUPLE AND IGNITION POWER BLE. WITH POWER SUPPLY 1: SNT 48W 12V 4A CONNECTION TERMINALS, SI: 1/2"-NPT (MINIMUM 2 PER SIZE 1"-NPT. ALL NON 2E SIZE 1"-NPT. ALL NON 2E SIZE 1"-NPT. ALL NON 2E SIZE 1"-NPT. ML NON 2E SIZE 1"-NPT. SIZE 1"-NPT. ML NON 2E SIZE 1"-NPT. SIZE 1"-NPT. SIZE 1"-NPT. SIZE 1"-NPT. SIZE 1"-NPT	TEEL. CERTIFICATE: D STEEL. WITH STAINLESS NGITUD: 1000mm. PROOF NPT ACCESSES CABLE & 1" 20 VAC 60 Hz TO ZE 2,5mm2, WITH R SIDE) AND LOWER SED ACCESSES WITH	SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT (ACL)	9.P.1 – CONT ACL CONTR WITH POW 120 VAC 60 Hz	TROL PANEL NOLLER BOX TO 24 VDC	FLA BY 1272-I-	ARGENT / SBWW OTHERS -TI-005	17.N2.F 14.N2.M.1000 CONDUIT (SEE PAGE 16.N32 CABLE 24V. SECTION 2X2.5mm ² +GND (SEE PAGE 4)	SEE PAGE 4
17.N2.F 16.N32 16.N.21 15.N2.N75 14.N2.M.1000 9.P.1	1 1 1 1 1 1	CERTIFICATE: EX(d) IIB+H REDUCER, 1" × 3/4"-NI CSA – EXPLOSION PROC REDUCER, 3/4" × 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4" × 3"(g, NPT. GALVANIZED STEEL CORF STEEL BRADED COVER, MALE-MALE ENDS. CERT ACL CONTROLLER BOX - (MINIMUM) FOR THERMOC ACCESS FOR POWER CAA ACCESSES (MINIMUM 1) LATERAL ACCESSES SIZE ACCESSES (MINIMUM 1) PLUG. MATERIAL: ALUMIN CERTIFICATE: CSA – EXF THERMOCOUPLE EXTENSI	12 PT. MATERIAL: GALVANIZED ST PLOSION PROOF MATERIAL: GALVANIZED STEEL UGATED FLEXIBLE COUPLING LIQUIDTIGHT, 3/4"-NPTM. LO IFICATE: CSA - EXPLOSION F - 12/24 VDC. WITH TWO ½" COUPLE AND IGNITION POWER BLE. WITH POWER SUPPLY 1: SNT 48W 12V 4A CONNECTION TERMINALS, SI: 1/2"-NPT (MINIMUM 2 PER SIZE 1"-NPT. ALL NON US UM CASTING. PROFECTION DE PLOSION PROOF ON WIRE. SECTION: 1x2x20AW	TEEL. CERTIFICATE: D STEEL. WITH STAINLESS WIGITUD: 1000mm. PROOF NPT ACCESSES R CABLE & 1" 20 VAC 60 Hz TO IZE 2,5mm2, WITH R SIDE) AND LOWER SED ACCESSES WITH GENEE IP66.	SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT (ACL) OTHERS	9.P.1 – CONT ACL CONTR WITH POW 120 VAC 60 Hz	ROL PANEL ROLLER BOX IER SUPPLY TO 24 VDC	FLA BY 1272-I- orks and Welding Limi	ARGENT / SBWW OTHERS C -TI-005 ted	17.N2.F 14.N2.M.1000 CONDUIT (SEE PAGE 16.N32 CABLE 24V. SECTION 2X2.5mm ² +GND (SEE PAGE 4)	SEE PAGE 4
17.N2.F 16.N32 16.N.21 15.N2.N75 14.N2.M.1000 9.P.1	1 1 1 1 1 1	CERTIFICATE: EX(d) IIB+H REDUCER, 1" × 3/4"-NI CSA – EXPLOSION PROC REDUCER, 3/4" × 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4" × 3"(g), NPT. GALVANIZED STEEL CORR STEEL BRAIDED COVER, MALE-MALE ENDS. CERT ACL CONTROLLER BOX - (MINIMUM) FOR THERMOC ACCESS FOR POWER CA 24 VDC WEIDMÜLLER CP JUNCTION BOX, WITH 12 LATERAL ACCESSES SIZE ACCESSES SINIMIMUM 1) PLUG. MATERIAL: ALUMIN CERTIFICATE: CSA – EXF	12 PT. MATERIAL: GALVANIZED ST PLOSION PROOF MATERIAL: GALVANIZED STEEL UGATED FLEXIBLE COUPLING LIQUIDTIGHT, 3/4"-NPTM. LO IFICATE: CSA - EXPLOSION F - 12/24 VDC. WITH TWO ½" COUPLE AND IGNITION POWER BLE. WITH POWER SUPPLY 1: SNT 48W 12V 4A CONNECTION TERMINALS, SI: 1/2"-NPT (MINIMUM 2 PER SIZE 1"-NPT. ALL NON US UM CASTING. PROFECTION DE PLOSION PROOF ON WIRE. SECTION: 1x2x20AW	TEEL. CERTIFICATE: D STEEL. WITH STAINLESS WIGITUD: 1000mm. PROOF NPT ACCESSES R CABLE & 1" 20 VAC 60 Hz TO IZE 2,5mm2, WITH R SIDE) AND LOWER SED ACCESSES WITH GENEE IP66.	SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT (ACL)	9.P.1 – CONT ACL CONTR WITH POW 120 VAC 60 Hz	IROL PANEL ROLLER BOX FER SUPPLY TO 24 VDC	1272-1- prks and Welding Limi em Design & Build for	ARGENT / SBWW 	17.N2.F 14.N2.M.1000 CONDUIT (SEE PAGE 16.N32 CONDUIT SABLE 24V. SECTION 2X2,5mm ² +GND (SEE PAGE 4) REV. 2	SEE PAGE 4
17.N2.F 16.N32 16.N.21 15.N2.N75 14.N2.M.1000 9.P.1	1 1 1 1 1 1	CERTIFICATE: EX(d) IIB+H REDUCER, 1" x 3/4"-NI CSA – EXPLOSION PROC REDUCER, 3/4" x 1/2' CERTIFICATE: CSA – EX NIPLE, 3/4" x 3"Ig, NPT. GALVANIZED STEEL CORR STEEL BRAIDED COVER, MALE-MALE ENDS. CERT ACL CONTROLLER BOX - (MINIMUM) FOR THERMOG ACCESS FOR POWER CAI 24 VDC WEIDMÜLLER CP JUNCTION BOX, WITH 12 LATERAL ACCESSES SIZE JUNCTION BOX, WITH 12 LATERAL ACCESSES SIZE ACCESSES (MINIMUM) 10 PLUG. MATERIAL: ALUMIN CERTIFICATE: CSA – EXF THERMOCOUPLE EXTENSI LENGTH: 30 mts (EACH	12 PT. MATERIAL: GALVANIZED ST PLOSION PROOF MATERIAL: GALVANIZED STEEL UGATED FLEXIBLE COUPLING LIQUIDTIGHT, 3/4"-NPTM. LO IFICATE: CSA - EXPLOSION F - 12/24 VDC. WITH TWO ½" COUPLE AND IGNITION POWER BLE. WITH POWER SUPPLY 1: SNT 48W 12V 4A CONNECTION TERMINALS, SI: 1/2"-NPT (MINIMUM 2 PER SIZE 1"-NPT. ALL NON US UM CASTING. PROFECTION DE PLOSION PROOF ON WIRE. SECTION: 1x2x20AW	TEEL. CERTIFICATE: D STEEL. WITH STAINLESS NGITUD: 1000mm. PROOF NPT ACCESSES CABLE & 1" 20 VAC 60 Hz TO IZE 2,5mm2, WITH R SIDE) AND LOWER SED ACCESSES WITH EGREE IP66. WG (EACH PAIR).	SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT SBWW / FLARGENT (ACL) OTHERS	9.P.1 – CONT ACL CONTR WITH POW 120 VAC 60 Hz	IROL PANEL ROLLER BOX FER SUPPLY TO 24 VDC	FLA BY 1272-I- orks and Welding Limi	ARGENT / SBWW 	17.N2.F 14.N2.M.1000 CONDUIT (SEE PAGE 16.N32 CONDUIT SABLE 24V. SECTION 2X2,5mm ² +GND (SEE PAGE 4) REV. 2	SEE PAGE 4

	D			B A
	1	INSTRUMENT LIST		
TAG		PI&D EQUIPMENT SKID		
			_	
				10.C.1 - Ø1" CONDUIT
				(14.N2.M.1000) 11.W.1 – HIGH VOLTAGE WIRE
				16.N32 SECTION 1x1.34mm ² ; COOPER CONDUCTORS, SILICONE COVER
				(TENSION 30kV – TEMP. 180°C) LENGTH: 3 mts
_				
				9.P.2 – IGNITION BOX ACL PI BOX
		UNION FEMALE-FEMALE, 3/4"-NPT. MATERIAL: GALVANIZED		(14.N2.M.1000)
17.N2.F	2	STEEL CERTIFICATE: CSA – EXPLOSION PROOF	SBWW / FLARGENT	FROM IGNITIC
16.N.32	3	REDUCER, 1" x 3/4"-NPT. MATERIAL: GALVANIZED STEEL. CERTIFICATE: CSA – EXPLOSION PROOF	SBWW / FLARGENT	LENGTH: 20 mts
16.N.21	2	REDUCER, 3/4" x 1/2"-NPT. MATERIAL: GALVANIZED STEEL.	SBWW / FLARGENT	
15.N2.N75	2	CERTIFICATE: CSA – EXPLOSION PROOF NIPLE, 3/47×3 ⁴ g., NPT. MATERIAL: GALVANIZED STEEL 2	SBWW / FLARGENT	15.N2.N75
10.112.117.0	£	GALVANIZED STEEL CORRUGATED FLEXIBLE COUPLING WITH		
4.N2.M.1000	3	STAINLESS STEEL BRAIDED COVER, LIQUIDTIGHT, 3/4"-NPTM. LENGTH: 1000mm. MALE-MALE ENDS CERTIFICATE: CSA -	SBWW / FLARGENT	<u>15.N2.N75</u>
		EXPLOSION PROOF HIGH VOLTAGE WIRE SECTION 1x1,34mm ² ; COPPER	SBWW / FLARGENT	
11.W.1	3 m	CONDUCTORS, SILICONE COVER (TENSION 30kV - TEMP. 180°C).	(ACL)	17.N2.F 10.C.1 - Ø1" CC
11.W.2	30 m	24V POWER CABLE. PVC INSULATED. 2X2,5mm ² OR 3X14AWG. PVC OUTLET JACKET.	SBWW / FLARGENT	
10.C.1	30 m	CONDUIT SIZE 1". NPT ENDS. MATERIAL: (RIGID GALVANIZED) STEEL	SBWW / FLARGENT	PAGE: 1272-I-TI-005 REV. 2 OF:
0.0.0		REMOTE MOUNT KIT WITH BACKPAN, WIRING HARNESS, STRAIN RELIEFS AND IGNITION MODULE (ACL PI BOX). BOX WITH TWO	SBWW / FLARGENT	CLIENT: Superior Boiler Works and Welding Limited
9.P.2	1	$\frac{1}{2}$ " NPT ACCESSES (MINIMUM) FOR IGNITION POWER CABLE	(ACL)	JOB: M4391 Flare System Design & Build for Canada
		DESCRIPTION	SUPPLIED BY	INSTRUMENT INSTALLATION DETAILS
ITEM	QTY	DESCRIPTION	SOFTLIED DI	

Pilot Ignitor (PI) Connection Diagram

The following diagram shows the wiring connections for the ACL3200 Flare Stack / Incinerator Ignition System in PI mode.

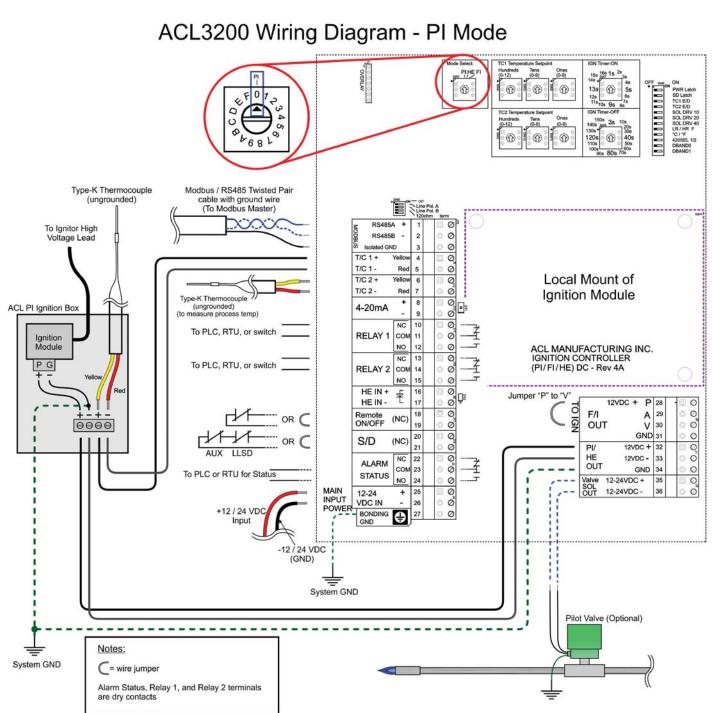
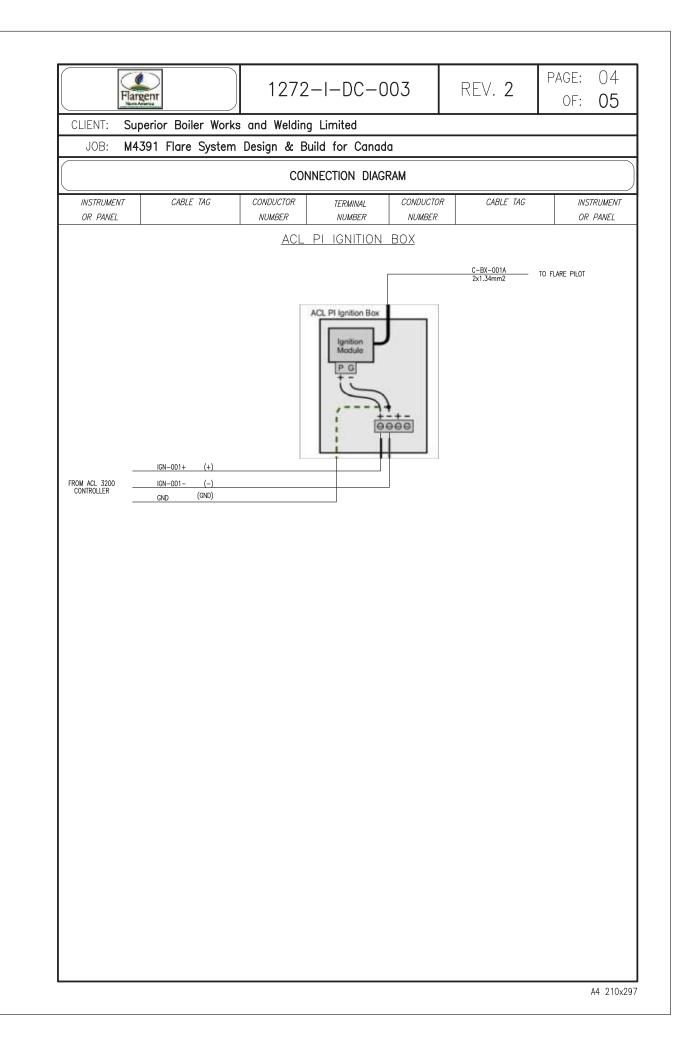


Figure 5 - ACL3200 Wiring Diagram - PI Mode

•	or Boiler Wor Flare Syster						
			С	ONNECT	ON DIAGRAM		
INSTRUMENT OR PANEL	CABLE TAG		NDUCTOR NUMBER		ERMINAL CONDUCT IUMBER NUMBER		INSTRUMENT OR PANEL
			<u>ACL</u>		CONTROLLER		
	RS485/ RS485/ Isolated GN	3 -	1 2 2		COMM+ (+) COMM- (-) COMMGND (GND)	MODBUS RTU COMM CONTROL ROOM (WIRING BY OTHERS)	
		Yellow Red	3 4 5	000	$\frac{\text{TE}-001A+}{\text{TE}-001A-} (Y) (Y) (Y) (Y) (Y) (Y) (Y) (Y) (Y) (Y)$	C-TE-001A () 1x2x20AWG+S Y (BY OTHERS) (*)	RMOCOUPLE BOX
	T/C 2 + T/C 2 -	Yellow Red	6 7	000	TE-002A+ (Y) (1 TE-002A- (R) (**)	C-TE-002A () 1x2x20AWG+S Y (BY OTHERS) I (*) (*)	RMOCOUPLE BOX
S/N	4-20mA	+	8 9	0 0	DO NOT CONNECT DO NOT CONNECT		
	RELAY 1	NC COM NO	10 11 12	000			
	RELAY 2	NC COM	13	000	TAL-002-NC (NC) TAL-002-COM (COM)	FLARE TIP STATE CONTROL ROOM (WIRING BY OTHERS)	
1	HE IN +	NO	15 16	00	DO NOT CONNECT		
	HE IN - Remote ON/OFF	(NC)	17 18 19	000	DO NOT CONNECT DO NOT CONNECT DO NOT CONNECT		
	S/D	(NC)	20 21	00.0	DO NOT CONNECT		
	ALARM STATUS	NC COM NO	22 23 24	0~0	TAL-001-NC (NC) TAL-001-COM (COM)	PILOT STATE CONTROL ROOM (WIRING BY OTHERS)	2
	12-24 VDC IN	+	25 26	0 0 0	24VDC + 0 24VDC - 0	PHASE 120 VAC - 60 H; NEUTRAL 120 VAC - 60	120 VAC 60 Hz POWER SUPP
	BONDING GND	Ð	27	00	<u>GND</u> 	Supply 120 VAC 60 Hz to 24 VI feidmüller CP SNT 48W 12V 4A	
	12VD	C + F	28	0	JUMPER		
	G F/I OUT	A V GN		00 00 00			
		12VDC - 12VDC - GNE	33	00	GN-001+ (+) GN-001- (-) SND	TO ACL PI IGNITION BO	(



Flarg	enr	1272	2-I-DC-C	03	REV. 2	PAGE: 05 0F: 05
	erior Boiler Wor			-		-
JOB: M43	91 Flare Syster	n Design & E	Build for Canad	a		
		CO	NNECTION DIAG	RAM		
INSTRUMENT OR PANEL	CABLE TAG	CONDUCTOR NUMBER	TERMINAL NUMBER	CONDUCTOR NUMBER	CABLE TAG	INSTRUMENT OR PANEL
	THE		JUNCTION B		DTHERS)	
		THER	MOCOUPLE SI BF1 TC	I <u>GNALS</u> 1		
TO ACL 3200 (1) CONTROLLER Y	C-TE-001A (() (Y) TE-001A+	010	YELLOW+		
(*)	1x2x20AWG+S (BY OTHERS)	(R) TE-001A-	03	RED- YELLOW+		TE-00
		SPARE	04	RED-		TE-00
		SPARE	05 0	YELLOW+		
	C-TE-002A	SHIELD	06 07	RED- YELLOW+		12 00
CONTROLLER	C-TE-002A (1x2x20AWG+S ((BY OTHERS)	(R) TE-002A-	- 08 0	RED-		TE-00
		SHIELD SPARE	-09000			
		SPARE	01000			
		SHIELD	01200			
						AA 910
						A4 210:



ACL 3200 Flare Stack/Incinerator Ignition System

Manufacturing Inc.





ACL 3200 PI /FI/ I / HE Ignition System

The ACL 3200 controller is configurable for our Pilot Ignition System (PI), Flame Ionization system (FI), Ignitor Only System (I), and our High Energy Sparking System (HE).

The ACL 3200 Pilot Ignition System (PI) is a continuous pilot which uses a high voltage spark to light the pilot. The pilot is then monitored by a thermocouple. The thermocouple is used for alarming purposes or to turn off the sparking when the pilot is lit.

The ACL Flame Ionization System (FI) uses a continuous pilot and high voltage sparker to light the pilot. It uses a single ignitor/flame rod to provide both flame acknowledgment and ignition. Maybe used with ACL 1500 pilot/flame rod assembly.

The ACL 3200 Ignitor Only System (I) is a continuous sparking system that provides a high voltage spark that will continually spark at a user defined interval set by an onboard timer. For use where pilot gas is not available

The ACL 3200 High Energy System (HE) is a continuous sparking system which uses a high energy excitor. There is no pilot required as this unit will continually spark at a user defined interval set by an onboard timer. For use in wet or severe service.

System Features

CSA Approved C22.2 No 199-M89 CSA Approved for Class I, Div 2 Locations **10-30 VDC operation** Low power consumption for solar operation 4-20mA transmitter output Weatherproof enclosure No programming necessary On board adjustable timer for on/off settings **Onboard scaled thermocouple adjustments with** relay outputs Fail safe alarm output Modbus communication onboard **Onboard solenoid drivers Stainless steel construction Fully retractable** 1400lb winch and 5/32 SST aircraft hoisting cable

Pilot Ignition System Features Continuous gas pilot Air/Fuel mixer Automatic relight Alarm provided by thermocouple sensing

Flame Ignition System Features Continuous gas pilot Continuous spark Automatic relight Alarm sensing through flame ionization

Ignitor Only System Features Continuous high voltage Spark ignition No gas required, or where fuel gas is not available

High Energy System Features Continuous spark ignition Alarm provided by electronic sensing of spark integrity Ignitor sparks in extreme wet conditions No gas required

