



the standard in safety

Underwriters
Laboratories

File E323131

Vol 1

Issued: 2008-07-18

Revised: 2008-11-17

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

TELEMETERING EQUIPMENT FOR USE IN HAZARDOUS LOCATIONS
(WYMV, WYMV7)

Manufacturer: DANIEL MEASUREMENT & CONTROL INC
(100511-917) GAS CHROMATOGRAPHS DIVISION
5650 BRITTMOORE RD
HOUSTON TX 77041

Applicant: SAME AS MANUFACTURER
(100511-917)

Listee: DANIEL MEASUREMENT & CONTROL INC
(992730-006) 11100 BRITTMOORE PARK DR
HOUSTON TX 77041

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc. (UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. (UL) or any authorized licensee of UL, upon request.

This PROCEDURE, and any subsequent revision, is the property of Underwriters Laboratories Inc. (UL) and the authorized licensee of UL and is not transferable.

Underwriters Laboratories Inc.

Stephen Hewson
Senior Vice President
Global Follow-Up Service Operations

William R. Carney
Director
North American Certification Program

<u>Models</u>	<u>Section</u>	<u>Report Date</u>
WITHDRAWN	1	1982-03-05
Withdrawn	2	1987-05-13
Withdrawn	2	1987-06-29
Withdrawn	4	1988-08-31
Withdrawn	5	1989-02-02
Withdrawn	6	1989-04-04
Withdrawn	7	1989-10-27
Withdrawn	8	1992-06-05
Withdrawn	9	1992-06-10
Withdrawn	10	1994-03-14
Withdrawn	11	1996-03-28
Withdrawn	12	2000-03-22
Withdrawn	13	2000-04-21
Model 2350 and 2350A gas chromatograph controller for use in Class I, Groups C and D hazardous locations.	14	1995-11-06

Listing Mark Data Page

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

LISTING MARK

The Listing Mark consists of four elements placed in close proximity and shall appear on Listed products only. Minimum size is not specified, as long as the Listing Mark is legible. The following is suggested.



XXXX = The control number assigned by UL, 3TYH.

The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye.

The product identity is: "TELEMETERING EQUIPMENT FOR HAZARDOUS LOCATIONS", "SECTION OF TELEMETERING EQUIPMENT FOR HAZARDOUS LOCATIONS", "TELEMETERING EQUIPMENT RELATING TO HAZARDOUS LOCATIONS" or "SECTION OF TELEMETERING EQUIPMENT RELATING TO HAZARDOUS LOCATIONS", an appropriate abbreviation or other appropriate product identity as shown in the individual Listing.

The product identity may be omitted if the Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate which includes the rating or the catalog or model designation.

Separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) will always include the four elements.

The manufacturer may reproduce the Mark or obtain it from a UL authorized supplier.

Canadian Listing Mark Data Page

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

LISTING MARK

The Listing Mark consists of four elements placed in close proximity and shall appear on Listed products only. Minimum size is not specified, as long as the Listing Mark is legible. The following is suggested. (If only Canadian coverage is authorized, use only the C-UL Symbol).

UL Symbol to the left and the C-UL Symbol to the right.



Alternatively, the Canadian/US Mark may be used. The UL Symbol with "C" to the left and "US" to the right.



XXXX = The control number assigned by UL, 3TYH.

The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye.

The product identity is: "TELEMETERING EQUIPMENT FOR (USE IN) HAZARDOUS LOCATIONS", "SECTION OF TELEMETERING EQUIPMENT FOR (USE IN) HAZARDOUS LOCATIONS", "TELEMETERING EQUIPMENT RELATING TO HAZARDOUS LOCATIONS", or "SECTION OF TELEMETERING EQUIPMENT RELATING TO HAZARDOUS LOCATIONS", or other appropriate product identity, as shown in the individual Listing. The wording in parentheses may be omitted.

The product identity may be omitted if the Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate which includes the rating or the catalog or model designation.

Separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) will always include the four elements.

The manufacturer may reproduce the Mark or obtain it from a UL authorized supplier.

SECTION GENERAL:**ENTRIES:**

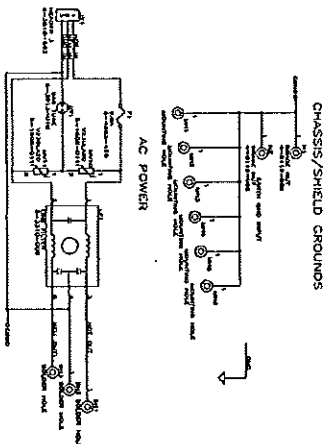
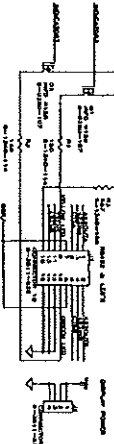
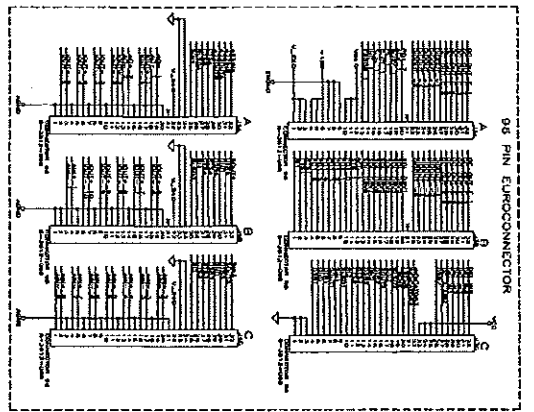
Entries shall use a modified National Standard Pipe Tapered (NPT) or National Standard Pipe Straight (NPS) thread. The pipe thread form shall comply with the Standard for Pipe Threads, ANSI/ASME B1.20.1-1983. Entries shall not be smaller than trade size 1/2 nor larger than trade size 6 and shall provide for five full threads of engagement with a conduit or fitting gauging at L1-1. NPT Threaded entries shall conform to ANSI/ASME B1.20.1-1983 except that entries shall gauge with +1/2 to +3-1/2 turns beyond the L-1 gauging notch in lieu of the +/-1 turns described in ANSI/ASME B1.20.1-1983.

Effective September 7, 2002

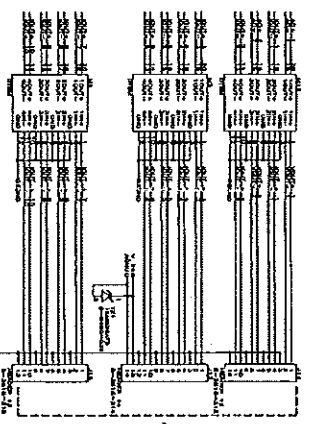
Markings:

For products relying on UL 913 or evaluated to intrinsically safe criteria:

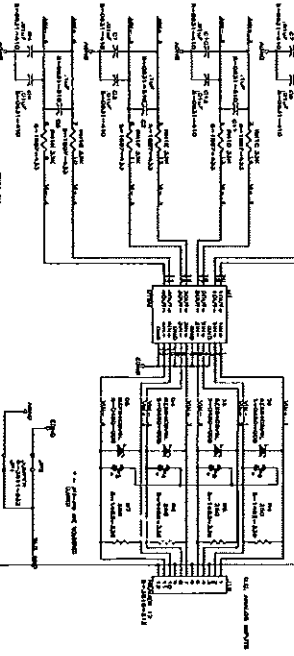
Effective December 2, 2005: Unless noted in a specific section in this volume that a specific model or models have been evaluated by UL for live maintenance in accordance with the Sixth Edition of UL 913 (and marked accordingly), then all models in all sections of this volume shall be marked as follows: "WARNING: To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing" or marked with equivalent wording. Nameplate drawings used by the manufacturer may vary in revision level from those in the individual sections. Changes shall only be in respect to the live maintenance marking as indicated above.



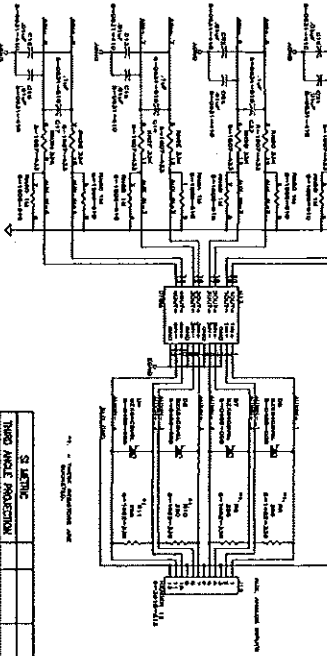
ANALOG OUTPUTS



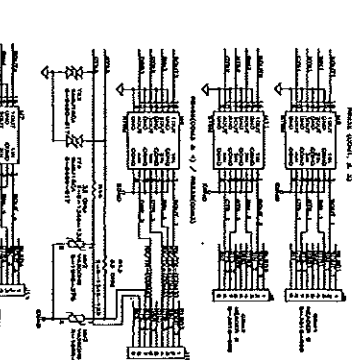
ANALOG INPUTS 1-4



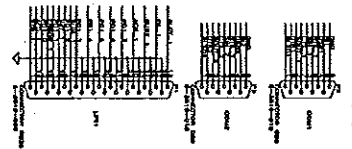
ANALOG INPUTS 5-8



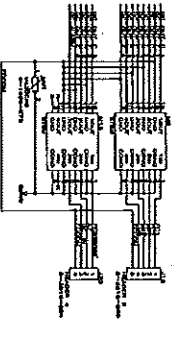
SERIAL COMMUNICATIONS



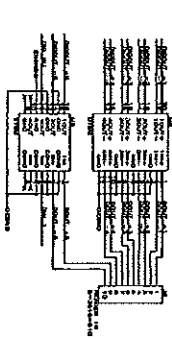
PC CONNECTIONS



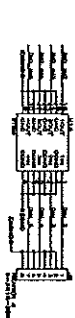
DC CONTROL OUTPUTS



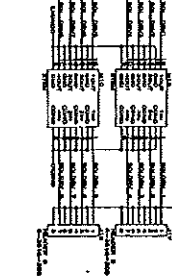
STREAM ALARM OUTPUTS



STREAM FLOW INPUTS



STREAM SWITCH OUTPUTS



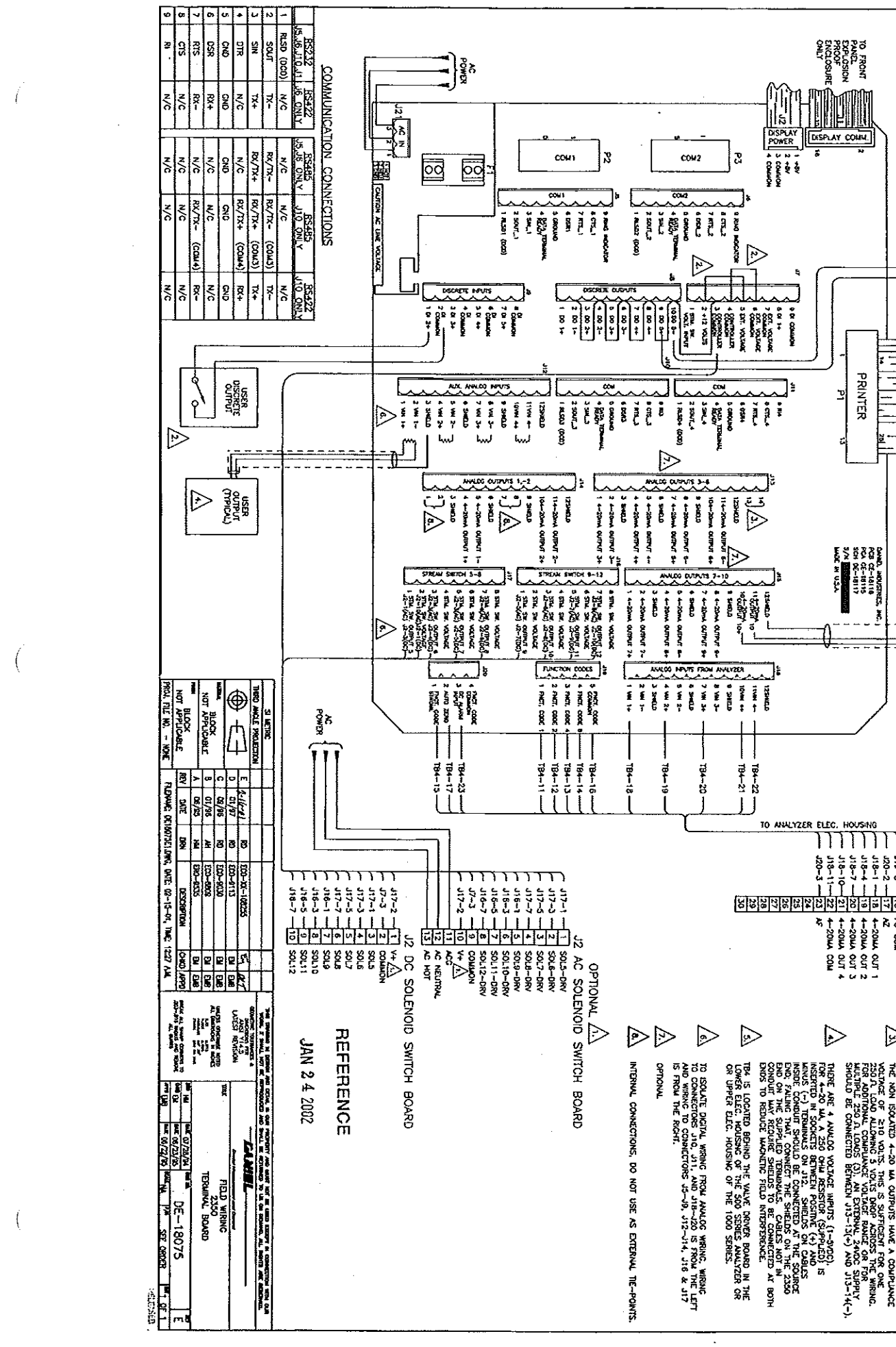
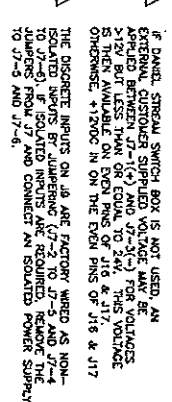
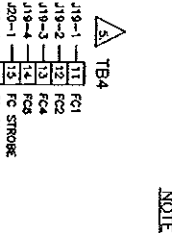
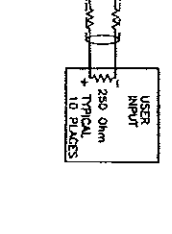
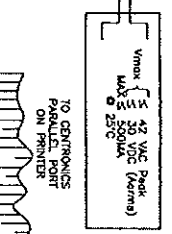
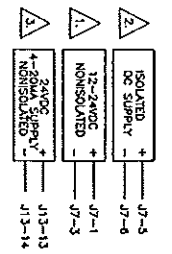
REFERENCE

JAN 24 2002

REV	DATE	BY	CHKD	DESCRIPTION	CHNG PART
0	02/27/02	BD	BD	020-25-110711	LS
1	02/27/02	BD	BD	020-25-110711	LS
2	02/27/02	BD	BD	020-25-110711	LS
3	02/27/02	BD	BD	020-25-110711	LS
4	02/27/02	BD	BD	020-25-110711	LS
5	02/27/02	BD	BD	020-25-110711	LS
6	02/27/02	BD	BD	020-25-110711	LS
7	02/27/02	BD	BD	020-25-110711	LS
8	02/27/02	BD	BD	020-25-110711	LS
9	02/27/02	BD	BD	020-25-110711	LS
10	02/27/02	BD	BD	020-25-110711	LS
11	02/27/02	BD	BD	020-25-110711	LS
12	02/27/02	BD	BD	020-25-110711	LS
13	02/27/02	BD	BD	020-25-110711	LS
14	02/27/02	BD	BD	020-25-110711	LS
15	02/27/02	BD	BD	020-25-110711	LS
16	02/27/02	BD	BD	020-25-110711	LS
17	02/27/02	BD	BD	020-25-110711	LS
18	02/27/02	BD	BD	020-25-110711	LS
19	02/27/02	BD	BD	020-25-110711	LS
20	02/27/02	BD	BD	020-25-110711	LS

REV	DATE	BY	CHKD	DESCRIPTION	CHNG PART
0	02/27/02	BD	BD	020-25-110711	LS
1	02/27/02	BD	BD	020-25-110711	LS
2	02/27/02	BD	BD	020-25-110711	LS
3	02/27/02	BD	BD	020-25-110711	LS
4	02/27/02	BD	BD	020-25-110711	LS
5	02/27/02	BD	BD	020-25-110711	LS
6	02/27/02	BD	BD	020-25-110711	LS
7	02/27/02	BD	BD	020-25-110711	LS
8	02/27/02	BD	BD	020-25-110711	LS
9	02/27/02	BD	BD	020-25-110711	LS
10	02/27/02	BD	BD	020-25-110711	LS
11	02/27/02	BD	BD	020-25-110711	LS
12	02/27/02	BD	BD	020-25-110711	LS
13	02/27/02	BD	BD	020-25-110711	LS
14	02/27/02	BD	BD	020-25-110711	LS
15	02/27/02	BD	BD	020-25-110711	LS
16	02/27/02	BD	BD	020-25-110711	LS
17	02/27/02	BD	BD	020-25-110711	LS
18	02/27/02	BD	BD	020-25-110711	LS
19	02/27/02	BD	BD	020-25-110711	LS
20	02/27/02	BD	BD	020-25-110711	LS

REV	DATE	BY	CHKD	DESCRIPTION	CHNG PART
0	02/27/02	BD	BD	020-25-110711	LS
1	02/27/02	BD	BD	020-25-110711	LS
2	02/27/02	BD	BD	020-25-110711	LS
3	02/27/02	BD	BD	020-25-110711	LS
4	02/27/02	BD	BD	020-25-110711	LS
5	02/27/02	BD	BD	020-25-110711	LS
6	02/27/02	BD	BD	020-25-110711	LS
7	02/27/02	BD	BD	020-25-110711	LS
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9	02/27/02	BD	BD	020-25-110711	LS
10	02/27/02	BD	BD	020-25-110711	LS
11	02/27/02	BD	BD	020-25-110711	LS
12	02/27/02	BD	BD	020-25-110711	LS
13	02/27/02	BD	BD	020-25-110711	LS
14	02/27/02	BD	BD	020-25-110711	LS
15	02/27/02	BD	BD	020-25-110711	LS
16	02/27/02	BD	BD	020-25-110711	LS
17	02/27/02	BD	BD	020-25-110711	LS
18	02/27/02	BD	BD	020-25-110711	LS
19	02/27/02	BD	BD	020-25-110711	LS
20	02/27/02	BD	BD	020-25-110711	LS



COMMUNICATION CONNECTIONS

RS232C	RS485	J10 ONLY
1 RS485 (000)	N/C	N/C
2 SOUT	RX/TX-	TX-
3 SIN	RX/TX+	TX+
4 DTR	N/C	N/C
5 CND	CND	CND
6 DSR	RX+	RX+
7 RTS	N/C	N/C
8 CTS	N/C	N/C
9 RI	N/C	N/C



OPTIONAL J2 AC SOLENOID SWITCH BOARD

TERMINAL	FUNCTION
J18-1	SOL3-DRV
J17-3	SOL7-DRV
J17-5	SOL9-DRV
J17-7	SOL10-DRV
J16-5	SOL11-DRV
J16-7	SOL12-DRV
J17-2	AC NEUTRAL
J17-3	AC HOT
J17-4	COMMON
J17-5	COMMON
J17-6	COMMON
J17-7	COMMON
J16-3	SOL10
J16-4	SOL11
J16-5	SOL12

J2 DC SOLENOID SWITCH BOARD

TERMINAL	FUNCTION
J17-2	1 V+
J17-3	2 V+
J17-4	3 V+
J17-5	4 V+
J17-6	5 V+
J17-7	6 V+
J16-3	7 SOL10
J16-4	8 SOL11
J16-5	9 SOL12

REFERENCE

JAN 2 4 2002

FIELD WIRING

TECHNICAL BOARD

DE-18075

NOTES:

- IF DANAL STREAM SWITCH BOX IS NOT USED, AN EXTERNAL CUSTOMER SUPPLIED VOLTAGE MAY BE APPLIED BETWEEN J7-1(+) AND J7-2(-) FOR VOLTAGES ARE THEN AVAILABLE ON EACH PIN OF J16 & J17. OTHERWISE, +12VDC IN ON THE EVEN PINS OF J16 & J17
- THE DISCRETE INPUTS ON J8 ARE FACTORY WIRED AS NON-ISOLATED. IF USER WISHES TO ISOLATE THEM, JUMPER FROM J7 AND CONNECT AN ISOLATED POWER SUPPLY TO J7-5 AND J7-6.
- THE NON ISOLATED 4-20 MA OUTPUTS HAVE A COMPLIANCE VOLTAGE OF 210 VOLTS. THIS IS SUFFICIENT FOR ONE MULTIPLE 250 OHM LOADS. AN EXTENDED 24VDC SUPPLY SHOULD BE CONNECTED BETWEEN J13-13(+) AND J13-14(-).
- THERE ARE 4 ANALOG VOLTAGE INPUTS (1-9-202). IS INSERTED IN SOCKETS BETWEEN POSITIVE (+) AND NEGATIVE (-) TERMINALS ON J12. SHIELDS ON THE CABLES SHOULD BE CONNECTED TO THE SHIELD ON THE 2350 CONDUIT. THE SHIELD TERMINALS, CABLES NOT IN CONDUIT MAY REQUIRE SHIELDS TO BE CONNECTED AT BOTH ENDS TO REDUCE MOISTURE FIELD INTERFERENCE.
- T84 IS LOCATED BEHIND THE WAVE DRIVER BOARD IN THE LOWER ELEC. HOUSING OF THE 1000 SERIES.
- TO ISOLATE DIGITAL WIRING FROM ANALOG WIRING, WIRING TO CONNECTORS J16, J17, AND J18-1/20 IS FROM THE LEFT IS FROM THE RIGHT.
- INTERNAL CONNECTIONS, DO NOT USE AS EXTERNAL THE-POINTS. OPTIONAL.

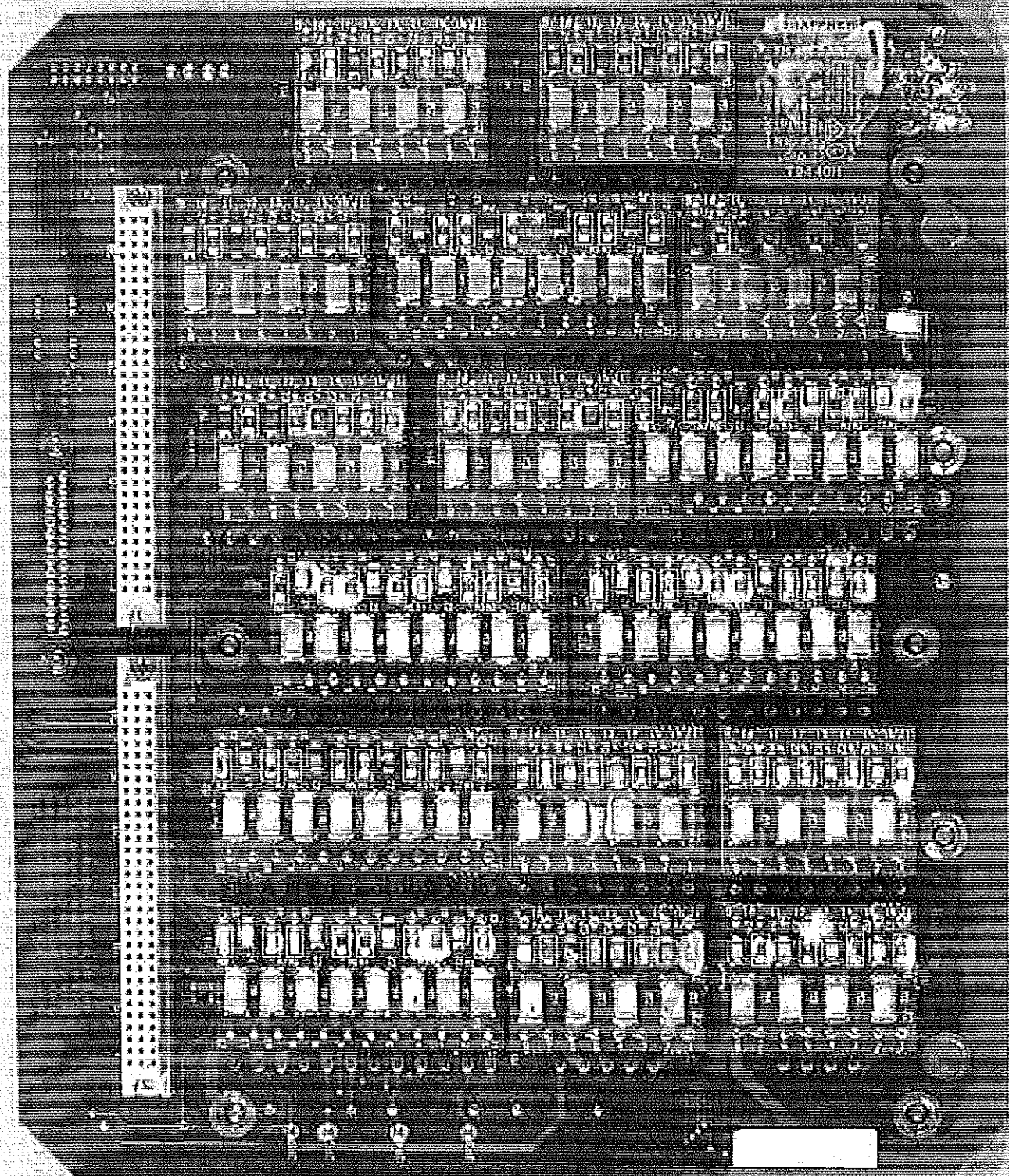
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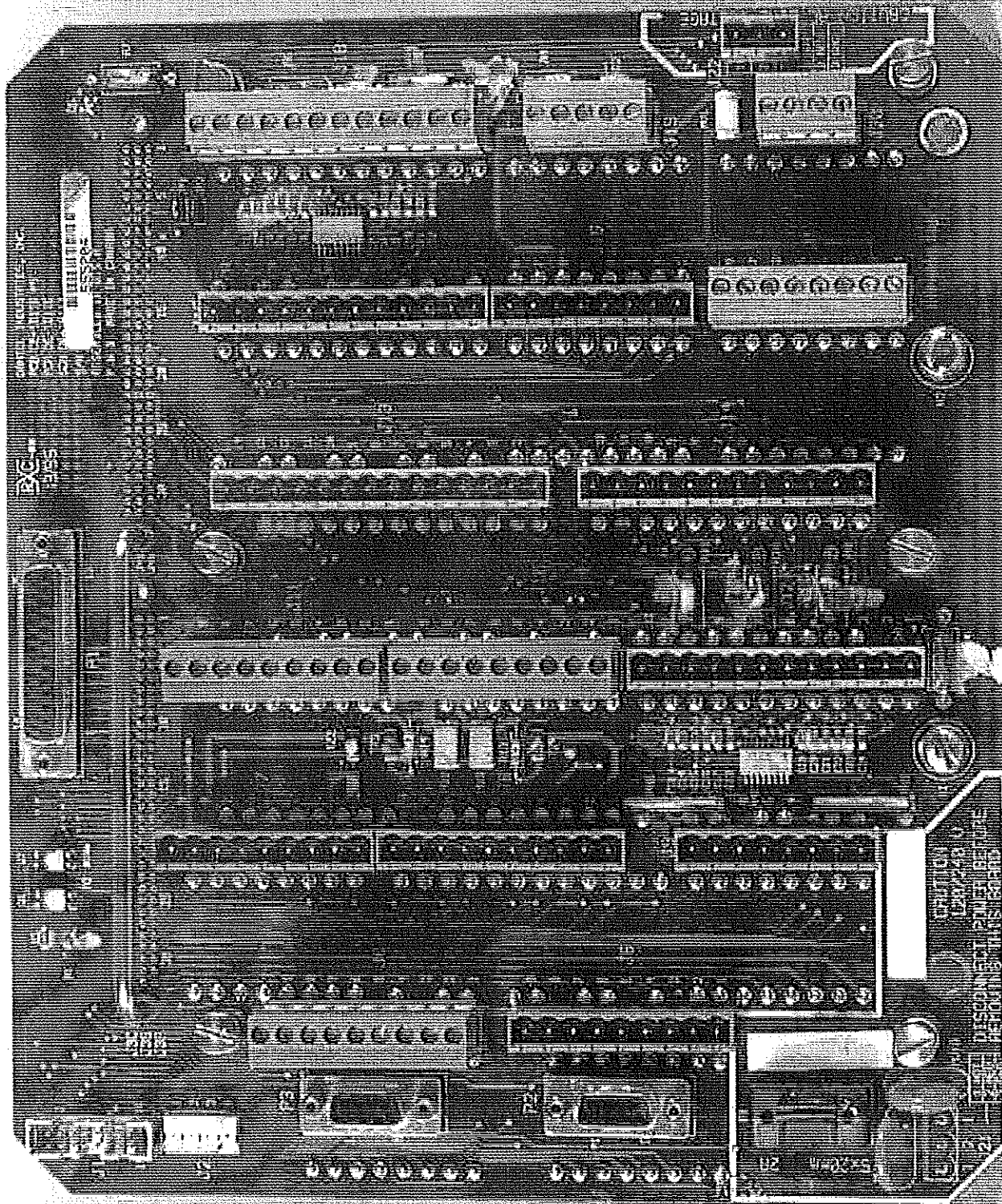
UL.WQ1

U.L. FILE NUMBERS
FIELD TERM. BOARD

ITEM	DESCR	MFG	MFG P/N	DAN P/N	UL FILE NUMBER
1	TRNS P-CHAN MOSFET		IRFD 9120	5-0280-107	
2	DIODE ZENER		BZX84C5VL	5-0480-008	
3	DIODE ZENER		1SMB26AT3	5-0480-235	
4	DIODE RECT		SM4249	5-0480-249	
5	CAP CER .01UF			5-0631-410	
6	CAP CER .1UF			5-0631-510	
7	RES 150			5-1340-114	
8	RES 887			5-1340-188	
9	RES WW 250			5-1462-339	
10	RES NET 33K			5-1507-433	
11	VARISTOR			5-1608-011	E-56529 or E-75961
12	VARISTOR			5-1608-275	E-135010
13	FILTER PWR LINE		FN405-.5/02	5-3310-009	E-64388-42 (FOKY2)
14	CONN 16 PIN		057-016-152	5-3511-020	E-73711
15	CONN 4 PIN		MLSS156-4A	5-3511-510	E-73711
16	HEADER 2 POS			5-3511-532	E-68080
17	CONN DIN 96 PIN		100-096-422C	5-3512-098	E-73711
18	HEADER 4 POS		1755752	5-3516-004	E-60425
19	HEADER 5 POS		1755765	5-3516-005	E-60425
20	PLUG 4 POS		1792265	5-3516-104	E-60425
21	PLUG 5 POS		1792278	5-3516-105	E-60425
22	PLUG 9 POS		1792317	5-3516-109	E-60425
23	PLUG 12 POS		1792346	5-3516-122	E-60425
24	HEADER 8 POS		1755794	5-3516-208	E-60425
25	HEADER 12 POS		1755833	5-3516-212	E-60425
26	HEADER 14 POS		1755859	5-3516-214	E-60425
27	PLUG 3 POS		1792760	5-3516-304	E-60425
28	PLUG 8 POS		1792812	5-3516-310	E-60425
29	PLUG 9 POS		1792825	5-3516-311	E-60425
30	PLUG 12 POS		1792854	5-3516-313	E-60425
31	PLUG 10 POS		1792838	5-3516-318	E-60425
32	HEADER 3 POS		1755749	5-3516-502	E-60425
33	HEADER 9 POS		1755804	5-3516-509	E-60425
34	HEADER 10 POS		1755817	5-3516-510	E-60425
35	CONN RCPT 25 POS		H4R25ST29A	5-3519-009	E-60980
36	CONN RCPT 9 POS		H4R09ST29A	5-3519-010	E-60980
37	PIN RCPT			5-3588-011	
38	PIN RCPT			5-3588-012	
39	SURGE ARRESTOR	U-7B		5-3913-010	E-140906
40	FUSE 5X20MM .5A			5-4203-407	E-10480
41	FUSE CLIPS			5-4203-915	ref file E-152246
42	FUSE HOLDER			5-4203-916	E-75421

Schaffner Elektronik AG





APPENDIX A

SPECIAL INSTRUCTIONS

FIELD REPRESENTATIVES DUTIES AND INSTRUCTIONS
FOR EXAMINATION OF THE END PRODUCT AT THE HOUSTON TX, USA FACILITY

The termination board as described in File E323131, Volume 2, Section 1 is for use with the end-product Models 2350 and 2350A covered in the Applicant's File E323131, Volume 1, Section 14 that are manufactured by DANIEL MEASUREMENT & CONTROL INC in Houston, TX, USA. The termination board is covered as Applicant's Unlisted Component printed wiring board subassembly, under File E323131, Volume 2, Section 1 and are manufactured by Nortech in Merrifield, MN, USA. The printed wiring board shall be marked with the manufacturer's special identification marking as specified in the following table. This marking shall serve as the special identification marking for the Unlisted Component. The marking is on a removable adhesive-backed label.

Manufacturing Location	Marking
Merrifield, MN	NSI - UL

Printed wiring board that does not bear the special identification marking shall not be used in the end product.

FIELD REPRESENTATIVES DUTIES AND INSTRUCTIONS
FOR EXAMINATION OF THE UNLISTED COMPONENT AT NORTECH FACILITY IN
Merrifield, MN, USA

PRINTED WIRING BOARD SUBASSEMBLY:

The printed wiring board, as described in File E323131, Volume 2, Section 1, shall comply with the description given in that Procedure. They shall be identified with the manufacturer's special identification marking as specified in the above table. This marking shall serve as the special identification marking for the Unlisted Component. The marking shall be on a removable adhesive-backed label.

The printed wiring board subassemblies are assembled into the complete end-product covered in Applicant's File E323131, Volume 1, Section 14 at the Houston, TX, USA facility.

If the construction does not comply with the Procedure, a Variation Notice shall be issued and the Unlisted Component Marking shall be removed. Marking need not be removed if the printed wiring board involved in a rejection are brought into compliance with the Procedure during the inspection.

In the event a printed wiring board subassembly is rejected for noncompliance with this Procedure, the inspector shall determine that the discrepancy does not extend to the entire lot involved in the inspection.

File E323131
Project 09NK07698

July 29, 2009

REPORT

on

UNLISTED COMPONENT - TELEMETERING EQUIPMENT
FOR USE IN HAZARDOUS LOCATIONS

For Use Only In

APPLICANT'S LISTED TELEMETERING EQUIPMENT

Daniel Measurement & Control Inc
Houston TX

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DESCRIPTION

PRODUCT COVERED:

Unlisted Component - P/N 2-3-2350-001, Printed wiring board subassembly.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVES USE):

Part Number 2-3-2350-001 is a printed wiring board subassembly as described herein. The subassembly is for use only in the Applicant's end project Telemetering Equipment, Models 2350 and 2350A gas chromatograph controller described in File E323131, Volume 1, Section 14, where the acceptability is determined by Underwriters Laboratories Inc.

CONDITIONS OF ACCEPTABILITY:

In determining the acceptability of the printed wiring board subassembly, the following items shall apply.

1. The final assembly shall comply with the applicable requirements of UL 1203, 4th Edition and CSA C22.2 No. 30-M1986, Rev. 1988-11.
2. No tests have been performed on the component subassemblies. All testing was performed in the end product Report. The final assemblies shall comply with the applicable requirements of the end product standards specified above.
3. These printed wiring board subassemblies have previously been evaluated as parts of the manufacturer's complete assembly for use in hazardous locations, Model 2350 and 2350A gas chromatograph controller described in File E323131, Volume 1, Section 14.

MARKINGS:

The unlisted components shall be marked with the following:

1. Part number.
2. Special identification marking as specified in Appendix A of this Procedure.

ELECTRICAL SPACINGS:

The electrical spacings in this product shall not be less than the following:

- A. 1/16 in. through air and 1/8 in. over surface between any uninsulated live part and an uninsulated live part of opposite polarity, uninsulated grounding part other than the enclosure, or exposed metal part.
- B. 1/4 in. between any uninsulated live part and the walls of the metal enclosure including fittings for conduit.

ASSEMBLY AND CONSTRUCTION DETAILS:

The construction details are shown in the following descriptive pages, figures and illustrations.

<u>Description</u>	<u>Fig. No.</u>	<u>ILL. No.</u>
Termination Board Layout	1.	
Termination Board	2	
Termination Board assembly		1
Termination Board Solder Assembly		2
Bill of Materials		3
Termination Board wiring diagram		4
Schematic		5

TERMINATION BOARD - FIG. 1 AND FIG. 2

General - See ILL. 3 for list of components (for reference only).
Termination board is mounted into end product Models 2350 and 2350A with four screws.

Printed Wiring Board - R/C (ZPMV2), rated 105°C minimum. Multilayer board having overall dimensions measuring 8-1/2 by 10 in., 3/32 in. thick minimum.

* Transient Voltage Surge Suppressors - Any R/C (XUHT2), rated 230 V, 4500 A peak.

Fuse Clips - Plated brass, 0.016 in. thick. Snap fits fuse securely holding fuse in place.

Fuseholder - Insulated fuse cap manufactured by Phoenix. Fuse snaps into this fuseholder which, in turn, snaps into the fuse clips.

Power Line Filter - R/C (FOKY2), manufactured by Schaffner Elektronik AG, Part No. FN405,5/02.

Connector J22 - R/C (RTRT2), manufactured by Molex, KK Series, Part No. 6442.

Fuse - Any Listed fuse, rated 2 A, 250 V ac.

TEST RECORD NO. 2

SAMPLES AND INFORMATION:

Information regarding the R/N 2-3-2350-001 printed wiring board subassembly as indicated below and constructed as described herein, was submitted by the manufacturer for examination and test.

Any R/C (XUHT2), rated 230 V, 4500 A peak

GENERAL:

Tests were considered covered as follows:

Test	Rationale for Waived Test ⁺	File Reference	Report Date	Test Record No.
All End Product Tests	1	E323131	1995-11-06	1-6

+ - (1) The component subassembly was previously tested as part of the end product in Applicant's File E323131, Report dated 1995-11-06.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements shown in the below table and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

Standard No. UL 1203, 4th Ed., Rev. 2009-10-28, Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
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Standard No. CAN/CSA C22.2 No. 30-M1986, Rev. 1988-11, Explosion-Proof Enclosures for Use in Class I Hazardous Locations
--

Test Record by:

Reviewed by:

NBK

Bridget Reese
Project Engineer

Katy Holdredge
Senior Staff Engineer

Project No. 09NK14973

File E323131

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Compliance

Review

Conducted by: Bridget M. Reese

Bridget M. Reese

Date 2009-11-12

Printed Name

Signature

When a measurement is needed to determine compliance with a clause the actual measured value must be recorded in the space provided. A simple 'Yes' / 'No' response is not sufficient. (See 'UL Certification Program - Work Instructions for Completion of Construction Review Datasheets (CRD) For C-UL Mark' (00-OP-W0038) for details).

CONSTRUCTION COMPLIANCE REVIEW RECORD

Sample Identification -

Currently certified product used for comparison (include Report references if not in the same report):	P/N 2-3-2350-001 with any R/C (XUHT2), rated 230 V, 1200 A peak
Alternate construction details:	P/N 2-3-2350-001 with any R/C (XUHT2), rated 230 V, 4500 A peak

No samples received or examined. Drawings or other information was provided to support the revised construction.

Measurement Instrument Information -

Inst. ID No.	Instrument Type	Function/Range	Last Cal. Date	Next Cal. Date
N/A				

Measurement instrument information is recorded on UL's Laboratory Project Management (LPM) database. (This statement may be selected only if CRDs are completed at a UL facility)

Project No. 09NK14973
Compliance
Review

File E323131

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Conducted by: Bridget M. Reese
Printed Name

Bridget M. Reese
Signature

Date 2009-11-12

CONSTRUCTION COMPLIANCE REVIEW:

Due to similarity to the existing construction described under "Sample Identification", a limited review for compliance with the construction requirements in the following Standard was conducted. The construction requirements applicable to the revised construction and compliance with those requirements are noted below.

Standard CSA C22.2 No. 30, Explosion-Proof Enclosures for Use in Class I Hazardous Locations Edition/
Revision Date 1986

Clause/Par. Reference and Construction Requirement	Comply			COMMENTS/MEASUREMENTS	INST. ID NO.
	YES	NO	N/A		
No Applicable Clause			X	THE REVISED RATING OF THE VOLTAGE SUPPRESSOR DOES NOT HAVE AN EFFECT ON ANY CLAUSES OF CSA C22.2 NO. 30.	