

333 Pfingsten Road Northbrook, IL 60062-2096 USA www.ul.com tel: 1 847 272 8800 fax: 1 847 272 8129 Customer service: 1 877 854 3577

File E258617

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Vol 1

Issued: 2007-01-17

Revised:

FOLLOW-UP SERVICE PROCEDURE (TYPE R)

PURGING AND PRESSURIZING CONTROLS AND ACCESSORIES FOR USE IN HAZARDOUS LOCATIONS (RFPW)

Manufacturer:

GOENNHEIMER ELEKTRONIC GMBH

(100025-747) DR-JULIUS-LEBER-STR 2 67433 NEUSTADT GERMANY

GFT. Applicant: (100025-747)

SAME AS MANUFACTURER

SAME AS MANUFACTURER

Classified Company: (100025-747)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service 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. upon request.

This PROCEDURE, and any subsequent revisions, is the property of UNDERWRITERS LABORATORIES INC. and is not transferable.

UNDERWRITERS LABORATORIES INC.

Sajeev Jesudas

Chief Operating Officer

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(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

CLASSIFICATION MARK

COMPOSITION AND ELEMENT:

The Classification Marking shall consist of the following and shall suppear on the product.

FOR USE IN HAZARDOUS LOCATIONS
IN ACCORDANCE WITH THE NATIONAL FIRE
PROTECTION ASSOCIATION STANDARD FOR PURGED AND
PRESSURIZED ENCLOSURES FOR ELECTRICAL EQUIPMENT
NFPA 496-(date)
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+ - "PURGE CONTROL", "PURGE CONTROL ACCESSORY", or other appropriate product identities as indicated in the individual Classification.

MARKING:

The following symbol must be located adjacent to (left side of text), and as part of, the regular Classification Marking.



The minimum height of the registered trademark symbol $^{\circ}$ 8 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.

PROCUREMENT:

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

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DESCRIPTION

PRODUCT COVERED:

USC - Class I, Division 1, Groups B, C and D Hazardous Locations.

Purge/Pressurization Controls, Model FS850U followed by .0, .2, or .3, followed by .2, .4, .6, or .8, followed by .0 or .1. May be provided with Model BT851 Remote Operation Panel and/or Model DW812 External Monitor, intrinsically safe when installed in accordance with installation instructions F850U.

GENERAL:

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The purge controls covered by this Report are intended to provide a Type X purge/ pressurization in accordance with NFPA 496. Instructions and markings are provided with the controls to install these devices to the

markings are provided with the controls to install these devices to the electrical enclosure to be purged and pressurized to the requirements in NFPA 496. The purged and pressurized electrical equipment or enclosure is not provided as part of these devices.

The device may be provided with the optional Model BT851 Remote Operation Panel and/or the Model DW812 External Pressure/Flow Monitor, which are intrinsically safe devices powered from the Model FS850U.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

The products covered by this report were evaluated to United States Standards UL 1203, Fourth Edition; NFPA 496, 2003 Edition; UL 913, Sixth Edition; UL 508, Seventeenth Edition and UL 840, Third Edition.

The devices are intended for use in a maximum ambient temperature of 60° C with a T4 temperature code, and 40° C with a T6 temperature code.

RATINGS:

Purge controls are rated 110Vac, 120Vac, 230Vac; 2.5W max; 60 Hz.

Relay contacts are rated 250Vac, 5 A maximum.

Purge controls are rated for a maximum purge inlet supply pressure as indicated in Table 1. The installation instructions must specify that a UL Listed regulator suitable for the application be installed to ensure the references inlet supply pressure.

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Table 1

	1.5mm nozzle	2mm nozzle	3mm nozzle	4mm nozzle
	diameter	diameter	diameter	diameter
Maximum Inlet	÷	Plate Ori	fice [mm]	
Pressure				
1.5 bar	Minimum 6mm	Minimum 10mm	Minimum 14mm	Minimum 18mm
2 bar	Minimum 6mm	Minimum 10mm	Minimum 14mm	
2.5 bar	Minimum 10mm	Minimum 10mm	Minimum 18mm	
3 bar	Minimum 10mm	Minimum 14mm	Minimum 18mm	
- 3.5 bar	Minimum 10mm	Minimum 14mm		
4 bar	Minimum 10mm	Minimum 14mm		
5 bar	Minimum 10mm	Minimum 14mm		

TEMPERATURE CODE/ AMBIENT TEMPERATURE RANGE:

Temperature Code	Ambient Temperature Range
T6	-10°C to 40°C
T4	-10°C to 55°C

MODEL NOMENCLATURE:

$$\frac{\text{FS850U}}{\text{I}} \quad - \quad \frac{.1}{\text{II}} \quad - \quad \frac{.2}{\text{III}} \quad - \quad \frac{.1}{\text{IV}}$$

I - Basic model, FS850U

II - Line Voltage

.0 - 230V AC

.2 - 120V AC

.3 - 110V AC

III - Plate Orifice

.2 - 6mm

.4 - 10mm

.6 - 14mm

.8 - 18mm

IV - Alarm output

.0 - Without alarm output

.1 - With alarm output

BT851 - Is a remote control unit for the FS850U

DW812 - Is a pressure/flow monitor to be connected to a second purge/pressurized enclosure. It is used in conjunction with the FS850U.



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VP Engineering COENNHEIMER ELEKTRONIC GMBH DR-JULIUS-LEBER-STR 2 67433 NEUSTADT GERMANY

Date:

2007/01/23

Subscriber:

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PD No:

07003078

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Type:

PO Number:

Subject: Procedure And/Or Report Material

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The following material resulting from the investigation under the above numbers is enclosed.

Issue

Date Vol Sec

2007/01/12 1

Pages

Revised Description Page(s) 1

Revised Date

2007/01/22

Inspections at your plant will be conducted under the supervision of Mr. Claus Schaefer, UL International Germany GmbH, Frankfurter Strasse 229, 63263 Neu-Isenburg, Germany. PHONE: +49-6102-3690; FAX: +49-6102-369480; E-MAIL: Claus.Schaefer@de.ul.com.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to our Customer Service Professional, PHONE: 1-877-ULHELPS (1-877-854-3577), FAX: 1-847-407-1395, E-MAIL: customerservice.nbk@us.ul.com, referring to the above Project and/or PD Numbers.

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NBK File

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