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The following FM information refers to the Micropack FDS300 and the Micropack FDS301.

In North America, these products are sold exclusively by Draeger as the Draeger Flame 3000 and the Draeger Flame 5000.

The Micropack branded products are not sold in North America.

The Micropack products and the Draeger products are exactly the same, the only difference is the color of the housing and the name on the housing.

Micropack FDS300 = Draeger 3000

Micropack FDS301 = Draeger 5000



Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

Flame Detector model FDS 300 and FDS301

Approval Guide Listing: Category: Electrical Signaling/Alarm Signal Initiating Devices/Fire Detection, Flame-Actuated

Model FDS300 Visual Flame Detector

The FDS300 Visual Flame Detector is Approved for use at factory default settings for the US and Canada. The video imaging detector incorporates an integral CCTV camera. The FDS300 detector operates from 18 to 32Vdc with firmware version 1.01. The detector dry contact Form C relay outputs connect to a compatible Approved control panel for alarm and trouble reporting. The FDS300 was tested for flame response with heptane, methane, silane and ethanol fuels. The FDS300 maximum flame detection distance was measured at 197ft. [60m] with a field of view of [vertical] 80.5° and [horizontal] 120°. Suitable as explosionproof for use in Class I, Division 1, Groups B, C and D; flameproof for use in Class I, Zone 1, AEx/Ex d IIC with a T4 temperature class rating in hazardous (classified) locations, indoors and outdoors Type 4X / IP66. Operating temperature range is -60°C to +85°C (-76°F to +185°F).

☒ Hazardous Location Equipment - Europe (ATEX) ☒ Detectors ☒ Flame

FDS300 Visual Flame Detector.

FM07ATEX0033

II 2 G Ex d IIC T4 Ta=-60°C to +85°C IP66

☒ Electrical Signaling ☒ Alarm Signal Initiating Devices ☒ Fire Detection, Flame-Actuated

Model FDS301

The FDS301 Visual Flame Detector is Approved for use at factory default settings. The color imaging detector incorporates an integral CCTV camera. The FDS301 detector operates from 18 to 30Vdc with firmware version 1.13. The detector dry contact Form C relay outputs connect to a compatible Approved control panel for alarm and trouble reporting. Fuels tested for response are Methane, Ethanol, Heptane, Gasoline, and JP4 Jet Fuel, and Silane. Suitable as explosionproof for use in Class I, Division 1, Groups B, C and D; flameproof for use in Class I, Zone 1, AEx d IIC with a T4 temperature class rating in hazardous (classified) locations, indoors and outdoors Type 4X / IP66. Operating temperature range is -60°C to +85°C (-76°F to +185°F).

☒ Hazardous Location Equipment - Europe (ATEX) ☒ Detectors ☒ Flame

FDS301a Visual Flame Detector.

FM07ATEX0033

II 2 G Ex d IIC T4 Ta= -60°C to +85°C IP66

a = aluminium alloy or stainless steel enclosure



Member of the FM Global Group



Certificate of Compliance

Approved for: Micropack (Engineering) Ltd
Fire Training Centre, Schoolhill, Portlethen, AB12 4RR, Scotland

To verify the availability of the Approved product, please refer to www.approvalguide.com

This certifies that the equipment described has been found to comply with the applicable requirements of the following FM Approval Standards and other documents:

<i>Approval Standards/Class Number</i>	<i>Date</i>	<i>Other Standards/Organization, Designation</i>	<i>Date</i>
3260	August 2000	ANSI/FM 3260	February 2004
3600	November 1998	ANSI/NEMA 250	1991
3615	March 1989	ANSI/NFPA 72	2002
		CSA22.2 No. 0.4-04	2004
		CSA22.2 No. 0.5	1982 [1999]
		CSA22.2 No. 30	1986 [R2003]
		CSA22.2 No. 94- M91	1991 [R2001]
		CSA22.2 No. 142- M1987	1987 [R2004]
		ANSI/ISA-60079-0, ANSI/ISA-60079-1	2005
		CAN/CSA E60079-0, CAN/CSA E60079-1	2002 [R2006]
		AN/IEC 60529, CSA-C22.2 No. 60529	2004 2005

Original Project Identification: 3029978 Approval Granted: November 16, 2007

Subsequent Revisions: This certificate reflects the present Approval of the product as described in the original Approval Project and the following subsequent report: 3029978, rev090421, 3042009, 3046299, 3052776, 3050687

FM Approvals

A handwritten signature in dark ink, appearing to read "J.E. Marquedant", written over a horizontal line.

James E. Marquedant, Manager Electrical Systems
FM Approvals
1151 Boston-Providence Turnpike,
Norwood MA, 02062 USA

Date 28 August 2014



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