DE-LISTED

APPROVAL REPORT

SERIES 4000 INDUSTRIAL FLOW SENSORS for HAZARDOUS (CLASSIFIED) LOCATIONS

Prepared for:

DATA INDUSTRIAL 11 INDUSTRIAL DRIVE MATTAPOISETT, MA 02739

J.I. 3D7A7.AX 3610 January 28, 1999

Supercedes Report Dated: January 8, 1999





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January 28, 1999

SERIES 4000 INDUSTRIAL FLOW SENSORS FOR HAZARDOUS AREAS

from

DATA INDUSTRIAL 11 INDUSTRIAL DRIVE MATTAPOISETT, MA 02739

I INTRODUCTION

1.1 Standards

DATA INDUSTRIAL requested Approval of the apparatus listed in Section 1.2 to be in compliance with the applicable requirements of the following standards:

<u>Title</u>	<u>No.</u>	Issue Date
Intrinsically Safe Apparatus for Use in Class I, II and III, Division 1 Hazardous (Classified) Locations Note: 1.5 factor applied to voltage and current rather the	FMRC 3610	October 1988
Electrical Equipment for Use in Hazardous (Classified) Locations General Requirements	FMRC 3600	August 1998
Electrical and Electronic Test, Measuring, and Process Control Equipment	FMRC 3810	March 1989

FACTORY MUTUAL RESEARCH CORPORATION JOB IDENTIFICATION J.I. 3D7A7.AX

1.2 Listing -

The following was evaluated as intrinsically safe (entity) for use in Class I, II and III, Division 1, Groups A, B, C, D, E, F and G indoor hazardous (classified) locations in accordance with Drawing No. 06-634-003 rev. A and 06-634-004 rev. A; indoor hazardous (classified) locations and will appear in the Approval Guide as follows:

Model 4abcdefgh. Series 4000 Industrial Flow Sensor.

IS/I,II,III/1/ABCDEFG/T5; Entity-Dwg. No. 06-634-003/A; Entity-Dwg. No. 06-634-004/A

4-20 mA model

Entity Parameters: Vmax = 30v, Imax = 50.0mA, Ci=0.027 uF, Li = 2mH

Pulse model

Entity Parameters: Vmax =30v, Imax=50.0mA, Ci=1.12 uF, Li = 2mH

a = Style 0 or 1.

b = Size 0, 1 or 2.

c = Material 2, 3, 4, 5, 7, 8 or 9.

d = Electronics 02, 03, 12, 13.

e = O-ring 0, 1, 2, 3, 4 or 5.

f = Shaft 0, 1, 2, 3, 4, 5, 6 or 7.

g = Impeller 0, 1 or 2.

h = Bearing PVDF 1, 2 or 3.