

Certificate of Compliance

Certificate: 1617188

Master Contract: 151079


Project: 1617188

Date Issued: November 23, 2004

Issued to: Endress + Hauser GmbH + Co. KG
Hauptstrasse 1
Malburg, Baden Wurttemberg 79690
GERMANY

*The products listed below are eligible to bear the CSA Mark shown
with adjacent indicators 'C' and 'US'*




Authorized by: G. Foulem

PRODUCTS

CLASS 2258-02 – PROCESS CONTROL EQUIPMENT - For Hazardous locations

CLASS 2258-82 – PROCESS CONTROL EQUIPMENT - For Hazardous locations - Certified to U.S. Standards

Class II, Division 1 and 2, Groups E, F and G

Class III, Division 1.

Level Limit Switch, 'Soliphant T' models FTM20 and FTM21, with electronic insert FEM22 rated 10-45 Vdc, 350 mA max, PNP transistor output. and electronic insert FEM24 rated 19-253 Vac, 50/60 Hz or 10-55 Vdc, 1.3 VA max, 2 floating outputs max. 6A..

Maximum surface temperature under worst case failure condition: $T_A = T + 35K$ where T represents the ambient temperature of the electronic (-40°C....+70°C) or the process temperature of the sensor (-40°C....+130°C)

Note:

Installation shall be in accordance to the Canadian Electrical Code Part 1, C22.1.

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.

Certificate: 1617188

Master Contract: 151079

Project: 1617188

Date: November 23, 2004

APPLICABLE REQUIREMENTS

- | | |
|------------------------------|---|
| CAN/CSA-C22.2 No. 61010-1-04 | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements |
| CAN/CSA-E61241-1-1 :02 | - Electrical apparatus for Use in Presence of Combustible Dust – Part 1-1: Electrical Apparatus Protected by Enclosures and Surface Temperature Limitation. |
| ISA-82.02.01 : 04 | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements |
| FMRC Class 3600, Nov. 1998; | - Electrical Equipment for use in Hazardous (Classified) Locations, General Requirements. |
| IEC 60529:1989 | - Degrees of protection provided by enclosures (IP code) |



Supplement to Certificate of Compliance

Certificate: 1617188

Master Contract: 151079

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
1617188	November 23, 2004	cCSAus original Certification of Level Limit Switch, 'Soliphant T' models FTM20, FTM21 with electronic inserts FEM22 and FEM24 for Combustible Dust Hazardous Locations.