CSA INTERNATIONAL

Certificate of Compliance

Certificate: 2448153 **Master Contract:** 246454

Project: 2448153 **Date Issued:** February 22, 2012

Issued to: **KEM Kueppers Elektromechanik GmbH**

5 LiebigstraBe
Karlsfeld, Bayern D-85757
Germany
Attention: Kay Stegmann

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

C US

Dennis Jeffrey

Issued by: Dennis Jeffrey

PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non - Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive - Systems-For Hazardous Locations-Certified to U.S. Standards

Ex ia IIC

Class I, Zone 0, AEx ia IIC

Fiber-Optic amplifier model FOP 60/aa-bb-cc, refer to drawing EN_FOP60_OPTV for details about the model variations. This equipment is powered by a lithium battery rated 3.6V, 1.7Ah. The optical measuring signal parameters are for the wave length of radiation = 660nm / 890 nm and the density of radiation is ≤ 1.8mW / mm2. Ambient temperature ranges:-20°C ≤ Ta ≤ +20°C for temperature class T6; -20°C ≤ Ta ≤ +40°C for temperature class T5; -20°C ≤ Ta ≤ +70°C for temperature class T4. IP65

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APPLICABLE REQUIREMENTS

CSA C22.2 No. 0-10	General requirements – Canadian Electrical Code, Part II – Tenth Edition
CSA C22.2 No. 142-M1987	Process Control Equipment Industrial Products - Third Edition
CAN/CSA C22.2 No. 60079-0-07	Electrical apparatus for explosive gas atmospheres – Part 0: General requirements - First Edition
CAN/CSA E60079-11-02	Electrical Apparatus for Explosive Gas Atmospheres – Part 11: Intrinsic Safety "i"
CAN/CSA-C22.2 No. 60529:05 Edition 2.1, 2001-02	Degrees of protection provided by enclosures (IP Code)
UL 508 17th Edition, January 28, 1999	Industrial Control Equipment
UL 60079-0 5th Edition, October 21, 2009	Explosive atmospheres – Part 0: Equipment – General requirements
UL 60079-11 5th Edition, September 30, 2009	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “I”

MARKINGS

The following markings are laser etched onto the outside enclosure.

- Manufacturer’s name: "KEM Küppers GmbH", or CSA Master Contract Number “246454”, adjacent to the CSA Mark in lieu of manufacturer’s name.
- Model number: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMYY format, or serial number, traceable to month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark, as shown on the Certificate of Conformity.
- Year and Certificate number adjacent to the CSA mark: 12.2448153
- Hazardous Location designation: As specified in the PRODUCTS section, above (may be abbreviated).
- Temperature code: As specified in the PRODUCTS section, above.
- The equipment protection level, “Ga”, may also be marked on the equipment.

Note - Although the marking identifying the equipment protection level (EPL) may appear on equipment evaluated against this standard, the 2008 NEC does not recognize the concept of employing the equipment protection level in a complete risk assessment of an installation.

- The Following marking must be readily visible and permanently labeled inside the enclosure:
  - “WARNING – Use only “BATT-FOP-06” battery assembly.”
- The battery pack is marked with the minimum following markings:
  - Manufacturer’s name: "KEM Küppers GmbH", or CSA Master Contract Number “246454”

- Battery assembly identification “BATT-FOP-06”

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".