



Certificate of Compliance

Certificate: 2517686

Master Contract: 248090

Project: 2689105

Date Issued: March 18, 2014

Issued to: Ecom Instruments GmbH

Industriestrasse 2
Assamstadt, Baden-Wurttemberg 97959
Germany
Attention: William (Bill) Stewart

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



John Yam

Issued by: John Yam

PRODUCTS

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

Class I, Zone 1; AEx ib IIC T4

Zone 21 AEx ibD T96°C; -20°C <= Ta <= +55°C

Digital TETRA Radio, Model THR9 Ex; Li-ion 3.7V battery powered, 2000mAh Type BLN Ex-2 or 1280mAh Type BLN Ex-4, intrinsically safe with the following Entity Parameters as per drawing 500022EX13A02G;

Vmax= 4.2V; Imax= 1.114A; Ci = 410uF; Li = 1 uH

Notes:

- i. Battery: Only the certified battery module "BLN Ex-2" or "BLN Ex-4" shall be used



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ii. **Battery Exchange:** The battery module can be changed inside hazardous gas-explosive locations Zone 1 and 2. During battery change it must be assured that the connections are free from dust or dirt. In hazardous dust explosive locations the battery module shall not be exchanged.

iii. **Battery storage:** Reserve battery modules shall be carried only inside the safety-bag "SBC-Ex". For interchanging the modules shall be extracted only for a short time and the changed module must be immediately returned into the safety-bag

iv. **Battery charging:** The battery shall be charged only outside hazardous locations. For charging the module itself or within the electrical equipment only the following approved charging devices shall be used: DKC-6 Multi-charger for Terminal, DKC-6 Multi-charger for Battery, ACP-12*, LCH-12, DKC-1

v. **Accessories:** Inside hazardous locations, only accessories that connect to the Top-connector are allowed. The accessory must fulfill the requirements given in the user's manual and in the interface description 500022EX05A02G or 500022EX05A03G.

Note: There may be older accessories that meet the requirements of 500022EX05A02G. This access is suitable for usage.

vi. **Dust Ex location:** If there is no approved accessory connected to the Top-Connector the interface must be covered with the "SCL" cover.

vii. **Bottom connector:** The plug interface "Bottom Connector" shall not be used in hazardous locations.

APPLICABLE REQUIREMENTS

UL Standard 508, Seventeenth Edition - Electric Industrial Control Equipment

UL Standard 913, Seventh Edition - Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Div. 1, Hazardous (Classified) Locations

UL 60079-0, Fifth Edition - Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements

UL 60079-11, Fifth Edition - Equipment Protection by Intrinsic Safety "i"



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ANSI/ISA-61241-11 (R2011) - Electrical Apparatus for Use in Zone 20, Zone 21 and Zone 22 Hazardous (Classified) Locations – Protection by Intrinsic Safety “iD”