

Certificate of Compliance

Certificate: 1346169 (LR 69699-12)

Master Contract: 153280

Project: 1346169

Date Issued: September 15, 2003

Issued to: Saab Marine Electronics AB
Gamlestadsvagen 18b
Goteborg, S-402 51
SWEDEN
Attention: Mr. Thense Korsbo

The products listed below are eligible to bear the CSA Mark shown



Issued by:


Dorn Stochitoiu, P.Eng

Authorized by:


Nick Alfano
Operations Manager

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Ex de IIC T6 :

TankRadar Pro Transmitter Head, Type RTG 40, rated 100 - 240Vac, 10W or 24 - 48Vdc, 10W; up to two inputs 7 - 30V, 4 - 20mA; up to two outputs 4 - 20mA, 300 Ohm max.; ambient temperature range [- 40°C, + 70°C]; for installation refer to drawing # 9150073-905.

TankRadar Pro Transmitter Head and 5600 Series Radar Level Transmitter, Type TH43, input rated 24 - 240V ac or dc, 10W; up to two inputs 7 - 30V, 4 - 20mA; up to two outputs 4 - 20mA, 300 Ohm max. or Digital outputs TRL2bus, Profibus DP or Foundation Fieldbus; ambient temperature range [- 40°C, + 70°C]; for installation refer to drawing # 9150074-937.

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CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

Ex de [ib/ia] IIC T6

TankRadar Pro Transmitter Head and 5600 Series Radar Level Transmitter, Type TH43, rated 24 - 240Vac, 10W; Intrinsically Safe Display Output with entity parameters $U_o=7.84V$, $I_o=385.6mA$, $P_o=0.678W$, $L_o=0.17mH$, $C_o=8.8\mu F$; up to two Intrinsically Safe Inputs with entity parameters $U_i=30V$, $I_i=200mA$, $P_i=1.3W$, $L_i=0mH$, $C_i=0\mu F$ and $U_i=30V$, $I_i=300mA$, $P_i=1.3W$, $L_i=0mH$, $C_i=0\mu F$; up to two Intrinsically Safe Outputs with entity parameters $U_o=23.1V$, $I_o=125.7mA$, $P_o=0.726W$, $L_o=2.2mH$, $C_o=0.14\mu F$ or Digital outputs TRL2bus, Profibus DP or Foundation Fieldbus; ambient temperature range [- 40°C, + 70°C]; for installation refer to drawing # 9150074-939.

APPLICABLE REQUIREMENTS

- | | |
|------------------------|---|
| CAN/CSA-E60079-0:02 | - Electrical Apparatus for Explosive Gas Atmospheres--Part 0: General Requirements |
| CAN/CSA-E60079-1:02 | - Electrical Apparatus for Explosive Gas Atmospheres--Part 1: Construction and Verification Test of Flameproof Enclosures of Electrical Apparatus |
| CAN/CSA-E79-7-95 | - Electrical Apparatus for Explosive Gas Atmospheres--Part 7: Increased Safety "e" |
| CAN/CSA-E60079-11:02 | - Electrical Apparatus for Explosive Gas Atmospheres--Part 11: Intrinsic Safety "i" |
| CSA C22.2 No.142-M1987 | - Process Control Equipment |

MARKINGS

- CSA Monogram
- Submitter's name
- Model number
- Serial number
- Certificate # reference (i.e. 1999 LR 69699-12X or 2003.153280-1346169)
- Power Input Rating
- Electrical Options
- Reference to installation drawing 9150073-905, 9150074-937 or 9150074-939
- Ambient temperature range [-40°C to 70°C]
- Hazardous Location/Protection Method/Temperature Code (Ex de IIC T6 or Ex de [ib/ia] IIC T6)
- Caution statement (on the cover of the "Ex d" compartment): "To prevent ignition of Hazardous Atmospheres, do not open when energized or when explosive gas is present"
- Caution statement (on the cover of each "Ex e" compartment): "To prevent ignition of Hazardous Atmospheres, do not open when energized"

Supplement to Certificate of Compliance

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*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
1346169	Sept. 15, 2003	Addition of 5600 Series and TankRadar Pro Transmitter Head, Type TH43
- 12	Nov. 30/99	Original Certification.