



## Appendix 1

# Product Description and/or Approval Condition

Certificate No : HMB02586-OD005

Date of Issue : 30th September, 2019

## A. Product Description

### 1. Product Specification

- 1) Function : Protect Large Diesel Engines against oil mist explosion
- 2) Rating
  - Nominal Voltage : 24V DC
  - Relay Outputs : 2 x 'High Oil Mist Alarm'  
1 x 'Ready'  
1 x 'Oil Mist Pre-Alarm'
  - Communication interface : 3 wire RS485, galvanically isolated to monitoring device
  - Cable Entry : 2 x M25(8~16mm), 1 x M20(5~13mm)
  - Degree of Protection : IP54
  - Explosion Proof Grade : ATEX: II (2G) [Ex op is IIB T4 Gb] +5° C ≤ Ta ≤ +70° C  
IECEX: [Ex op is IIB T4 Gb] +5° C ≤ Ta ≤ +70° C

### 2. Approved Drawings and Documents

- 1) Circuit Diagrams
  - Document No. 1000194\_04 : VN2020 CPU Board
  - Document No. 1000196\_03 : Visatron VN2020 Terminal Box PCB
  - Document No. 1000198\_03 : Visatron VN2020 Display PCB
  - Document No. 260064\_01 : VN2020 Sendeplatine
- 2) Etc
  - Operation Manual VISATRON VN2020 (EX) Rev.1.0, dated 2019-04
  - Quality Assurance Measures for the Generation of Software VA\_7.3\_004e\_V05
  - Release Note FB\_8.2\_027\_V02

### 3. Test Reports, etc.

- 1) Test Report No. 1-7830/19-01-04 issued by CTC advanced GmbH, dated on 2019-02-20
- 2) Test Report No. 1-7830/19-01-05 issued by CTC advanced GmbH, dated on 2019-02-20
- 3) Function Test Report No. FB\_7.1\_012\_V03 under the witness by surveyors of this Society

## B. Approval Condition

### 1. Application & Limitation

- 1) This approval is granted on the basis of the test reports and approved documentation.
- 2) Degree of protection shall be complied with Rule Pt.6 Ch.1 Sec.2 201.2.(5).
- 3) The manufacturer should inform this Society of all kinds of revisions of the equipment including software. If the changes are recognized to affect functionality of the approved equipment, type test to confirm the reliability of the revised equipment may be performed in the presence of our surveyor.
- 4) Explosion-proof certification by a notified/recognized Certification Body is not covered by this certificate. Ratings and Special Condition for Safe Use in hazardous areas are to be obtained from the relevant valid Ex-Certificate.

### 2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is not required.

### 3. Marking

- 1) The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.

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**4. Others**

1) Test condition

Test	Condition	Remark
EMC	All locations excluding the bridge and deck zone	Up to 6 GHz
Temperature	+5 ~ +70 °C	-
Vibration	Acceleration ±4.0g	-
Salt mist	Not Applied	-
Degree of Protection	IP 54	-

< End of Certificate >

