

Contract Number: 800677

Certificate of Compliance: SGSNA/19/BAS/00009
Certificate Project Number: BAS-CERT190900008

SGS

Certified Product:

Vibration Sensor

Trademarks (if any):



Model(s):

Machine Sentry MSF-1

Technical Data:

Class 1, Div 1, Grps C & D; Class 1, Zone 0,
AEx ia IIB T4 Ga; Ex ia IIB T4 Ga;
Class 1, Div 2, Grps A to D; Class 1, Zone 2,
AEx ic IIC T4 Gc; Ex ic IIC T4 Gc;
-20°C to +60°C;

Name and Address of Certificate Holder:

AVT Reliability Ltd
Unit 2 Easter Court, Europa Boulevard, WA5 7ZB,
Warrington, Cheshire, United Kingdom

Name and Address of Manufacturer:

AVT Reliability Ltd
Unit 2 Easter Court, Europa Boulevard, WA5 7ZB,
Warrington, Cheshire, United Kingdom

This certificate supercedes previous certificates issued with the same certificate number. Certification is valid when products are indicated on the SGS directory of certified products at www.sgs.com. The product is certified according to ISO/IEC Guide 17067, *Conformity assessment - Fundamentals of product certification, System 3*, and in accordance with

UL 60079-0, 6th Ed. Rev. July 26, 2013

UL 60079-11, 6th Ed. Rev. September 6, 2013

UL 913, 8th Ed. Rev. December 6, 2013

ANSI/ISA 12.12.01-2015 Rev. August 21, 2015

CAN/CSA C22.2 No. 60079-0:15 Rev. October 2015

CAN/CSA C22.2 NO. 60079-11:14 Rev. February 2014

CAN/CSA C22.2 NO. 213, 3rd Ed. Update 2, Aug. 2019

Authorized by

Effective date: 27 February 2020

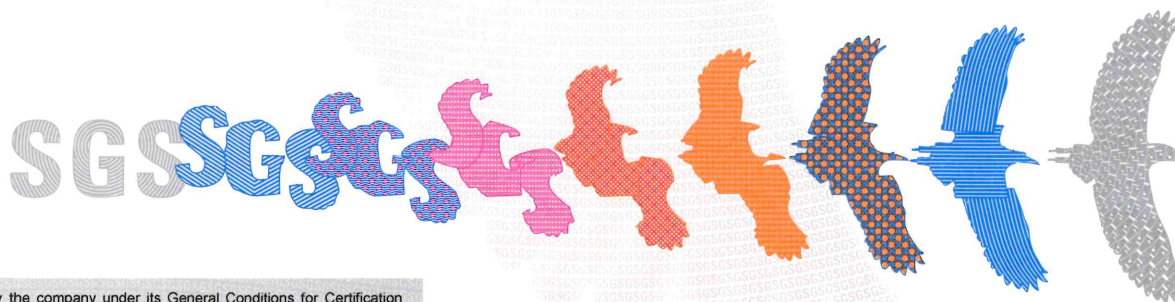
Ron Sinclair
Certifier

A handwritten signature in black ink, appearing to read 'Ron Sinclair'.

SGS Baseefa Limited, Rockhead Business
Park, Staden Lane, Buxton, SK17 9RZ, U.K.
t +44 1298 766600 f +44 1298 766601
www.sgs.com/sgsbaseefa

Consumer and Retail Services, a division of SGS North America Inc.
620 Old Peachtree Road, Ste. 100, Suwanee, GA 30024, USA
t +1 770 570 1800 f +1 770 277 1240 www.sgs.com

Page 1 of 3



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Product Description:

The Machine Sentry MSF-1 is a battery powered measurement device designed to measure the vibration of equipment located in the hazardous area. The equipment uses accelerometers to measure the vibrations in 3-axis of measurement.

The equipment can be either permanently attached to the equipment it is measuring using adhesive or mounting stud, or can be temporarily attached using a permanent magnet. The measurement information is then transmitted using Bluetooth communications to suitably certified data acquisition equipment.

The equipment comprises a single printed circuit board that is fully encapsulated in a plastic sub-assembly which also holds the battery. The assembly is fitted inside a cylindrical stainless steel enclosure with a polycarbonate cap fitted on the top to permit Bluetooth communications. The bottom of the enclosure is fitted with a threaded lid allowing access for the battery to be replaced.

The Machine Sentry MSF-1 is designed to be powered by an EVE ER26500 C Size 3.6V Lithium-thionyl Chloride (Li-SOCl₂) Battery.

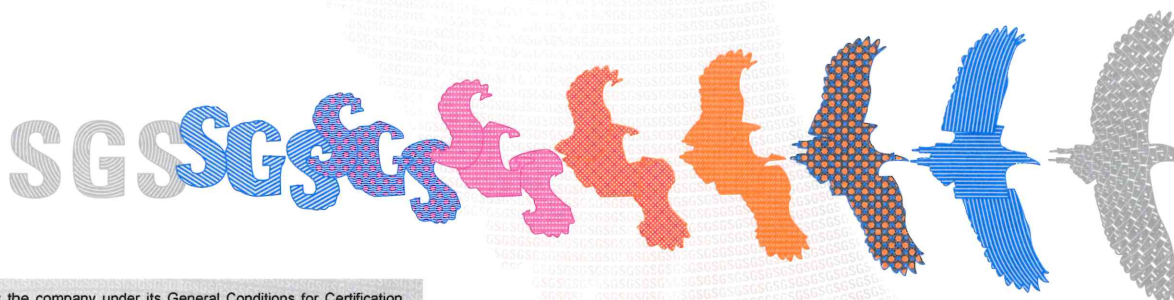


Effective date: 27 February 2020

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Certified Product:

Vibration Sensor

Trademarks (if any):

Model(s):

Machine Sentry MSF-1

Name of Certificate Holder:

AVT Reliability Ltd

Name and Address of Factory:

AVT Reliability Ltd
Unit 2 Easter Court, Europa Boulevard, WA5 7ZB,
Warrington, Cheshire, United Kingdom

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