

ATEX HAVmeter



Specification Sheet

250-020-04

Features and Benefits

The ATEX-accredited version of the highly successful HAVmeter system has been specifically designed to monitor Hand Arm Vibration Syndrome (HAVS) exposure on hand tools. The system can now be deployed in the offshore Oil and Gas, Nuclear, Petrochemical and other ATEX industries.

The ATEX HAVmeter is designed and manufactured to the requirements for Intrinsically Safe apparatus for potentially explosive atmospheres to comply with European ATEX and International IECEx directives required for potentially hazardous and explosive

The ATEX HAVmeter has been fitted with a built in lanyard loop for added safety to comply with the working at heights directive, assisting operators in hazardous environments when using power tools.

Technical Performance

IP Rating

IP65

Operating Temperature Range

-20°C to +50°C

Storage Temperature Range

-20°C to +50°C

Memory

Up to 400 tool connections

Communications

Close range inductive data communication (13.56MHz)

Battery

Internal lithium ion polymer
Rechargeable battery

Charge Time

Up to 10 hours

Battery Life

Up to 14 hours



Standards & Certifications

Baseefa Certification

Baseefa Ref: *Baseefa 10ATEX0224X*

The ATEX Certification Code

 **II IG Ex ia IIC T4 Ga (-20°C to 50°C)**

IECEX Certification Code

Ex ia IIC T4 Ga (-20°C to 50°C)

IECEX Ref

IECEX BAS 10.0108X

Temperature Classification

T4

Baseefa tested to standards:

IEC 60079-0 – Electrical apparatus for explosive gas atmospheres – Part 0: General requirements

IEC 60079-11 – Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”

Suitability

Non-mining product, Group II, category 1 for use in gas/vapour/ mist atmospheres.

Special conditions for safe use

1. The HAVmeter must always be fitted with the bump sleeve before being taken or used within a hazardous area.
2. The HAVmeter may not be charged on a Basestation within a potentially hazardous environment.
3. The HAVmeter may be damaged if the rechargeable cells are left in a discharged state for an extended period of time, therefore the cells must be recharged at least once every month.

Definitions

- **II** – Electrical equipment for use in places with an explosive atmosphere other than mines/underground
- **1G** – Suitable for gas zone 0 atmospheres
- **Ex** - Explosive Atmosphere
- **ia** – Intrinsically safe
- **IIC** – Non mining test gas hydrogen
- **T4** – Max surface temperature 135c
- **Ga** – Gas Zone 0
- **CE** compliant
- **WEEE** compliant

Elements

Dimensions: 76mm * 51mm * 30mm

Weight: 95g to 98g

LCD Screen Size: 17mm

Demonstrations

Reactec's ATEX qualified engineers can give a full demonstration of the ATEX HAVmeter system on site, displaying full operational hardware and software ready to be used in an ATEX environment.

System components

ATEX Tool Tags

The ATEX certification code is:

 II IG Ex ia IIC T4 Ga (-20°C to 50°C)

ATEX Tool Tags have been designed for use on tools approved for potentially explosive atmospheres and may only be attached to non-mining products, Group II, category 1 for use in gas/vapour/mist atmospheres.

ATEX Tool Tags are manufactured in black with the Ex marking 'Part of Baseefa 10ATEX0224X and IECEx BAS 10.0108X and unique serial number printed on the side flange.

Special Conditions for Safe Use:

Only ATEX Tool Tags should be used in hazardous areas.



Basestation

The Basestation provides data archiving and charging for up to 8 Standard or ATEX HAVmeters. HAVmeters are assigned to operators using personalised swipe cards or manually via the keypad.

The Basestation is not suitable for use in potentially explosive atmospheres.

- **Dimensions:** 382mm * 173mm * 33mm
- **Weight:** 1025g
- **IP Rating:** IP20
- **Operating Temperature Range:** 0°C to +40°C
- **Storage Temperature Range:** 0°C to +40°C
- **Memory:** 10 years
- **Communications:** Close range inductive data communication (13.56MHz)
- **Battery:** Internal lithium battery CR1220
- **Power:** 12VDC

