



HS-EM1 Negative Pressure Enclosure Monitor

Harley Scientific designs and develops precision equipment for use in decontamination, focussing on making exceptionally complex technology exceptionally easy to use.

The Harley Scientific Enclosure Monitor (HS-EM1) measures the pressure differential between a decontamination enclosure and external conditions. Enclosures are kept under negative pressure using air movement units with appropriate filters to ensure that hazardous substances are not vented from the working environment and dust is suppressed, in line with regulations such as the Control of Asbestos Regulations 2012.

By constantly monitoring the pressure differential, the HS-EM1 provides accurate, real-time information about the structural integrity of an enclosure and the airflow being achieved through it. Any breach in a pre-set pressure level will trigger an audible alarm, and additional air movement units can be automatically and immediately switched on, without needing an operative to intervene.

There is also the option for the unit to send text message alerts or communicate with other data centres over the internet or Bluetooth. All pressure record data is stored internally and can be either printed out or transferred to a laptop or tablet by Bluetooth or USB.

The HS-EM1 comes in a protective case



Technical specifications

Dim's and weight 345mm x 266mm x 120mm
2.7kg

Power supply Min : 100V AC / Max : 230V AC +/- 10%

Inputs Single pressure monitoring channel
Connection by means of 2 barbed stubs compatible with 4mm ID / 6mm OD flexible tubing
IEC power inlet with switch

Outputs OLED display
1 x audible local alert buzzer
USB peripheral connector socket
PC application to transfer the data into Excel
Bluetooth serial communications
2 x 230v relay for ancillaries

User interface / features Automatic service interval indication
Sensing hysteresis 20% of set value
Data capacity 30 days non-volatile of continuous monitoring
Data storage interval 15s
Unit measurement range 0—60 Pa

Conformity

- EN 61000-6-2:2005: (EMC) Part 6-2: Immunity for Industrial Environments
- EN 61000-6-3:2007+A1:2011: Part 6-3 : Emission standard for residential, commercial and light-industrial environments
- EN 61000-3-2:2006+A2:2009: Part 3-2: Limits for harmonic current emissions
- EN 61000-3-3:2008: Part 3-3: Limitation of voltage changes and fluctuations
- EN 61010-1:2010: Low voltage Directive
- IEC 62262:2002: Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts
- IEC 60068-2-75:1997: Environmental testing
- Fully CE marked and approved