

H8307 PRESSURE DIFFERENCE INDICATOR
NSN 6685-33-203-0363



HV Sistemas model H8307 is a differential pressure sensor and indicator designed for monitoring and alarm for use in environments where a pressure difference with the exterior is maintained, in order to avoid the entrance or exit of any contamination, as for example in clean rooms and laboratories.

This equipment has a tri-colour LED display (red, yellow and green) and an acoustic alarm device that can be silenced by the operator. The display shows the pressure difference between the two instrument input ports, with 0.1mb resolution. Two alarm levels can be set (alert and alarm).

It has also RS-232 and RS-485 serial ports, so the pressure difference and alarm status can be remotely monitored through a NMEA-0183 communication protocol.

Technical specifications

Power supply

Power supply voltage 0 – 36 V c.c., 24V nominal
 Power supply current 200mA máx @ 24V c.c.
 Overvoltage and reverse polarity protection Suppressing diode and fuse

Display and alarm

Display LED, tri-colour (green, yellow, red), 3 digits plus sign
 Acoustic alarm..... Integral piezoelectric buzzer

Sensing element

Type Silicon piezoresistive
 Measuring range 0 to15mb
 Precision..... ±0.2mb + 1 digit
 Temperature compensation Yes
 Calibration..... calibration coefficients stored in non-volatile EEPROM memory

Data interface

Physical interface RS-232 and RS-422
 Data format Asynchronous, 9600bps, 8 data bits, no parity, 1 stop bit
 Protocol NMEA-0183

Current output

Outputs..... 1, optional
 Type Isolated
 Current range 4 – 20 mA
 Current output power supply 8 – 36 V c.c.
 Calibration..... calibration coefficients stored in non-volatile EEPROM memory
 Digital/analog converter PWM plus integrator



Mechanical data

Size 100mm (long) x 160mm (width) x 70mm (height), not including connectors

Connectors Power supply: MIL-C-26482 8-4P
Data: MIL-C-26482 10-6S
Pneumatic connectors: 4mm fast type