

ZONE PRESSURE ALARM

An Electronic Pressure Measurement Solution for ColPro Systems



The Zone Pressure Alarm monitors positive pressure levels within chemical, biological, and radiological (CBR) collective protection zones. The alarm features a digital display of zone pressure, red and green lamps corresponding to low and safe pressure levels, and an audible alarm with silence and disable controls. The pressure level at which alarming occurs is adjustable over the range of 0.1 to 8.8 inches of water (in. wg), with a factory setting of 0.5 in. wg corresponding to pressure requirements for the U.S. Navy Selected Area Collective Protection System (SACPS).

When mounted within a protected zone, the Zone Pressure Alarm provides local personnel realtime pressure monitoring and alarming information. A remote alarm may be connected to the Zone Pressure Alarm for redundant monitoring within or outside of the protected zone.

The Zone Pressure Alarm uses a solid-state differential pressure transducer to compare zone (high) pressure to atmospheric (reference) pressure. Differential pressure, or overpressure, is digitally displayed with a resolution of 0.1 in. wg. Red and green lamps correspond to low and safe pressure levels. At zone pressures above the alarm setpoint (safe pressure), the green lamp illuminates and the audible alarm is silent. At pressures below the alarm setpoint (low pressure), the green light turns off and the red lamp illuminates, as the audible alarm sounds. The audible alarm may be silenced or disabled via a toggle switch on the panel face. Auxiliary contacts within the alarm panel allow for remote alarming should pressure fall from safe (green) to low (red) levels.

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Ordering information

Gauge Range

0.0 – 4.0 in. wg

HDT part number NW001031-04

NSN

On GSA Contract

Description Full scale reading for measuring overpressure in ship collective protection zones.

0 – 10.0 in. wg

HDT part number NW001031-10

NSN

On GSA Contract

Description Full scale reading for measuring the pressure drop imparted by CBR filter system.

Color Cloud Grey (#26307) IAW FED-STD-595

Electrical characteristics

Input power 110V/60Hz AC, <2 A, shielded

Overload protection Integral ON/OFF circuit breaker control (2A)

Power conditioning EMI filtering of AC Power

Remote alarm Relay contacts (Rated for 115VAC, 0.5A lamp, 3A resistive) that activate upon alarm

Physical characteristics

L x W x H 6" x 9" x 12.5"
15.24 x 22.86 x 31.75 cm

Weight (nominal) 12.0 lbs
5.4 kg

Panel

Material 1024 x 768 (XGA)

Coating Iridited IAW MIL-C-5541, Class 3 Painted IAW MIL-P-24441 (Epoxy Polyamide)

Auxiliary system components*

Static Outside Air Probe (SOAP) 53711-512-6573341

Air Line Filter 53711-512-6573296

AC Power Connector MS3406D10SP-3S (SOLDER)

Remote Alarm Connector PV4W10-6) (71468) ITT CANNON

* Auxiliary components include a Static Outside Air Probe for sampling atmospheric (reference) pressure, an Air Line Filter for collecting condensation within the reference pressure line, and mating electrical connectors. Multiple Zone Pressure Alarms may be connected to a single Status Outside Air Probe.

Products, product specifications and data are subject to change without notice to improve reliability, function, and/or design. Please contact Customer Service at 800.969.8527 for the most up-to-date product information.

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