



*The Pressure Indicator Transmitter is designed for use in ships, buildings, and other applications where reliable air pressure measurements are required. The Indicator Transmitter is available in two pressure ranges: 0.0 – 4.0 and 0.0 – 10.0 inches of water gauge (in. wg) for measuring overpressure within collective protection zones and filter flow restrictions. A built-in transducer converts the pressure signal to a 4-20 mA electrical signal for use by remote displays.*

## **Product Description**

The Pressure Indicator Transmitter is a versatile device specifically designed for collective protection applications where reliable pressure measurements are needed. The Pressure Indicator Transmitter features a Magnehelic® gage that measures and displays differential pressure between low and high pressure signal inputs. The transducer is easily installed to 10-35 VDC power via two terminal screws in order to deliver a 4-20 mA electrical signal to the ship's monitoring equipment.

Two sizes are available. Part number NW001031-04 features a 0.0 – 4.0 in. wg full scale reading for measuring overpressure in ship collective protection zones. The gage has red, yellow, and green ranges corresponding to the casualty (0.0 – 0.5 in. wg), deficiency (0.5 – 1.5 in. wg) and normal (1.5 – 2.5 in. wg) operating scenarios. Part number NW001031-10 features a 0 – 10.0 in. wg full scale reading for measuring the pressure drop imparted by a chemical, biological, and radiological (CBR) filter system. The gage has yellow, green, and red ranges corresponding to the low (0.0 – 5.0 in. wg), acceptable (5.0 – 8.0 in. wg), and high (8.0 – 10.0 in. wg) flow restrictions.

The pressure gage sits within a securable enclosure and set on a rigid mounting plate, both iridited and painted for corrosion resistance. Snubbers are included for more dampened, stable gage readings with less needle fluctuation.

## Operator Interface

Display	Analog – Magnehelic® with Silkscreen Gage Face
Color Markings	NW001031-04 - Red: 0.0 – 0.5 in. wg, Yellow: 0.5 – 1.5 in. wg, Green: 1.5 – 2.5 in. wg

## Physical Characteristics & Options

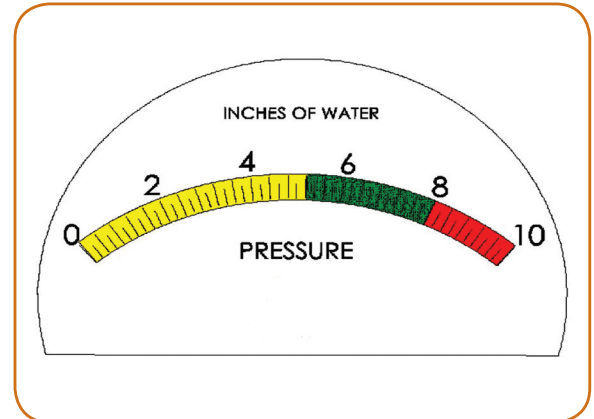
Size	13.0" high × 8.0" wide × 4.6" deep, nominal
Weight	10.0 lb, nominal
Panel Material	Aluminum
Panel Coating	Iridited IAW MIL-C-5541, Class 3
Color	Cloud Gray (Color 26307) or Light Gray (Color 16307) IAW FED-STD-595
Fittings	Swagelok® Female Bulkhead Connectors for 3/8" (10mm) O.D. Tubing

## Performance

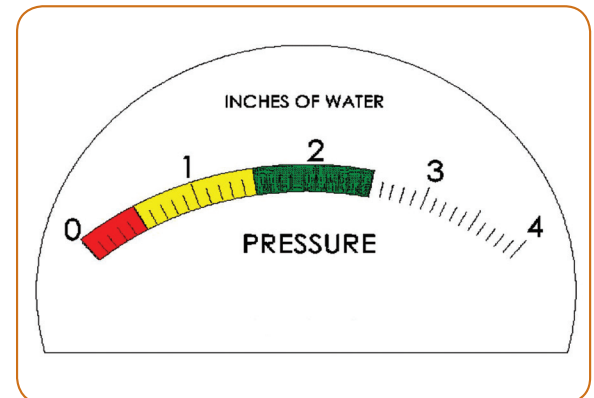
Pressure Ranges	0.0 to 4.0 in. wg operating (NW001031-04)
	0.0 to 10.0 in. wg operating (NW001031-10)
Pressure Resolution	0.1 in. wg (NW001031-04)
	0.2 in. wg (NW001031-10)
Gage Accuracy	±0.5% Electrical, ±2% Mechanical

## Electrical Characteristics

Input	10-35 VDC (2-wire)
Output Signal	4-20mA, proportional



NW001031-10 - Yellow: 0.0 – 5.0 in. wg, Green: 5.0 – 8.0 in. wg, Red: 8.0 – 10.0 in. wg



## Auxiliary System Components

Item No.	Component	Part No.
1	Static Outside Air Probe (SOAP)	6573341
2	Air Line Filter	6573296
3	Snubber	6573291

The information in this product data sheet is believed to be correct at the time of publishing. It is subject to change without notice. Please confirm prior to using any data for design purposes.

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