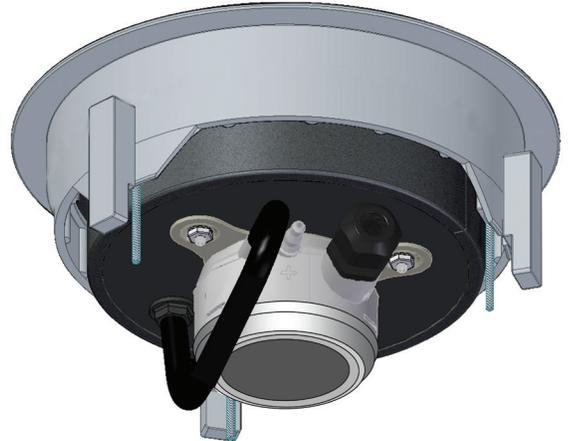
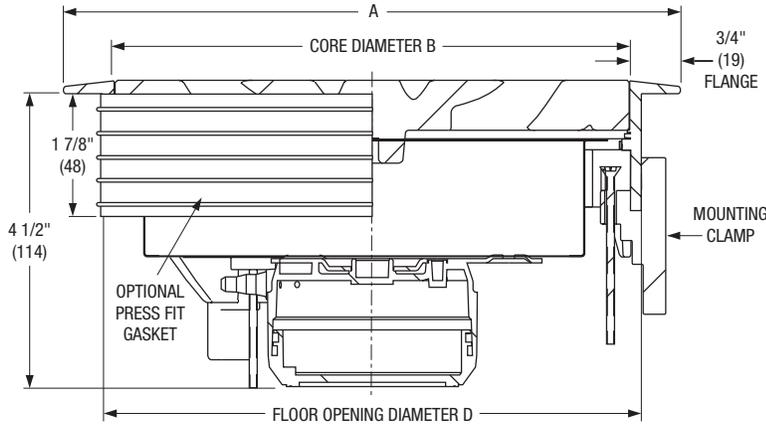




UNDERFLOOR PRESSURE TRANSMITTER
MOUNTED IN ROUND FLOOR DIFFUSER
UNDERFLOOR AIR DISTRIBUTION SYSTEMS
MODEL: UPT



Precision Floor Opening Diameter

Nominal Size	Mounting	D
8 (203)	MC	8 1/4 (210)
	PFG	8 3/8 (213)
10 (254)	MC	10 7/16 (265)
	PFG	10 9/16 (268)

Tolerance: +/- 1/32 (0.8).

Dimensional Data

Nominal Size	A	B
8 (203)	9 5/16 (237)	7 3/4 (197)
10 (254)	11 1/2 (292)	9 15/16 (252)

DESCRIPTION:

The Nailor UPT is for use in raised access floor air distribution (UFAD) systems and provides a means for measuring the relative pressure between the pressurized underfloor plenum and the room. The UPT is commonly used to send a modulating output signal to a digital controller (by others) to modulate one or more dampers to control pressure set-point in response to a thermostat demand which is located in the room. The digital controller may alternatively be used to control a variable frequency drive (VFD) on a vertical air column that is pressurizing the underfloor plenum.

The differential pressure transmitter is factory mounted to the underside of a Nailor (A)NFD round UFAD swirl diffuser. The standard dirt basket/damper is replaced with a solid low profile removable basket. The diffuser is not active.

The UPT is a convenient way to measure the underfloor pressure as it installs easily and provides the same uniform appearance as the other Nailor underfloor diffusers in the occupied zone. The pressure transmitter (transducer) is highly accurate (+/- 1%) at the very low pressures, typically 0.03"- 0.05" w.g. (7.5 - 12.4 Pa) at which UFAD systems are commonly designed.

PRESSURE TRANSDUCER / TRANSMITTER

FEATURES:

- Power requirement: Nom. 24 VAC or 24VDC.
- Output Signal: 0 - 10 VDC, 0 - 5 VDC (3-wire) or 4 - 20 mA (2-wire).
- Pressure Range: 0 - 0.1 w.g. (0 - 25 PA).
- Response time: Instantaneous (default) or 3 sec. (selectable).
- Zero and Span adjustment: Digital push button.
- Electrical connection: Terminal block.
- Electrical Entry: 1/2" (13) NPS thread.
- Enclosure rating: NEMA 4X (IP66), UL 2043 (plenum), UL 94 V-0.

DIFFUSER OPTIONS:

Material/Size:

- AD08 Aluminum / 8" (203) Round.
 - AD10 Aluminum / 10" (254) Round.
- Cast aluminum to match Nailor Model ANFD. Meets UL 2043.

Finish:

- GRT Gray (textured)
 - BKT Black (textured)
 - SPT Special Custom Color (textured)
 - PD08 Polycarbonate/8" (203) Round.
- High density polycarbonate plastic to match Nailor Model NFD. UL 94 V-0.

Finish:

- GR Gray
- BK Black
- SP Special Custom Color

Mounting:

- MC Adjustable Mounting Clamps (standard).
- PFG Press Fit Gasket (optional).

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
6-29-23	UFAD	6-23-23	UPT-1