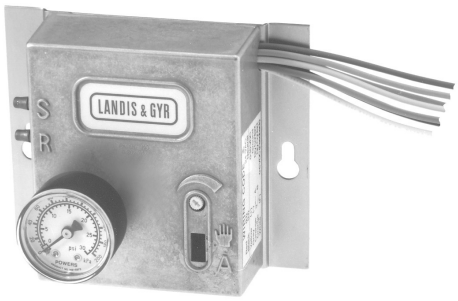
# Electronic-to-Pneumatic Transducer




545-208 Electronic-to-Pneumatic Transducer.




545-113 Electronic-to-Pneumatic Transducer.

## Description

The 545 Electronic-to-Pneumatic (AO-P) Transducer converts an electronic signal into a linear pneumatic signal; available in remote mount and panel mount.

## Features

- Insensitive to vibration and mounting position to allow mounting directly on equipment
- Hand-Auto switch and override dial allow for manual control of output pressure for troubleshooting and emergencies
- Accurate and repeatable output pressure signal
- Easy-to-install, no setup or calibration is required
- Wall-mount without an additional enclosure to reduce cost
- Factory-installed 0 to 30 psi (0 to 207 kPa) gauge included
- High capacity, non-bleed device

### Options

- Electrical connections to remotely monitor Hand-Auto switch position and output pressure

## Applications

The 545 Electronic-to-Pneumatic Transducers are used for accurate positioning of valve and damper actuators.

# 545 Transducer Specifications

**Supply Voltage** ..... 19 to 26 Vac (24 Vac typical)
**Power Consumption** ..... 1 VA max.
**Input Signal/Impedance** ..... 0 to 10 Vdc/20 K Ohm
**Output Signal** ..... 0 to 20 psi (0 to 138 kPa)
**Output Capacity** ..... 500 scim (135 ml/s) min. @ 5 psi (34.5 kPa) Drop (20 psi input, 15 psi output)
**Output Repeatability** .....0.05 psi (0.35 kPa) max. (includes hysteresis)
**Output Fail-safe** .....0 psi (0 kPa) in response to sustained power loss
**Output Fail-safe Exhaust Capacity** ..... 100 scim (27 ml/s) @ 5 psi (34.5 kPa) drop (unpowered)
**Air Supply Pressure** .....30 psi (207 kPa) max. safe pressure, clean, dry, (instrument quality air required)
**Air Consumption for Compressor Sizing** ..... 8 scim (2.2 ml/s)
**Tubing Connection** ..... Two-1/4" (6 mm) OD nominal, barbed fitting

**Conduit Connections** ..... Remote mount model has Two - 1/2" (13 mm) conduit connections
**Output Accuracy** .....@ 77°F (25°C) ± 0.25 psi (1.72 kPa) max.
@ 32 to 122°F (0 to 50°C) ± 0.50 psi (3.45 kPa) max.
@ -40 to +185°F (-40 to +85°C) ± 1.0 psi (6.90 kPa) max.
**Ambient Temperature Range**
Operating and Storage.....-40 to +185°F (-40 to +85°C)
**Operating Humidity** ..... 10% to 95% RH, non-condensing
**Vibration** .....Tested to EIA STD, RS-152B FEB 71
**Override Controls** .....Continuous variable output override (does not function without power)
**Override Monitoring**
Hand-Auto ..... A dry contact indicates the position of the Hand-Auto Switch to an external device.
**Hand-Auto Override**
Dry Contact Rating..... 30 Vac @ 100 mA, 42 Vdc
**Override Monitoring Output Pressure** ..... Optional 0 to 5 Vdc linear signal monitors output pressure
**Dimensions**
Remote Mount ..... 4.25" H x 7.25" W x 3.06" D (108 mm H x 184 mm W x 78 mm D)
Panel Mount ..... 4.25" H x 5.75" W x 3.06" D (108 mm H x 146 mm W x 78 mm D)
**Shipping Weight** .....2.0 lb. (0.9 kg)

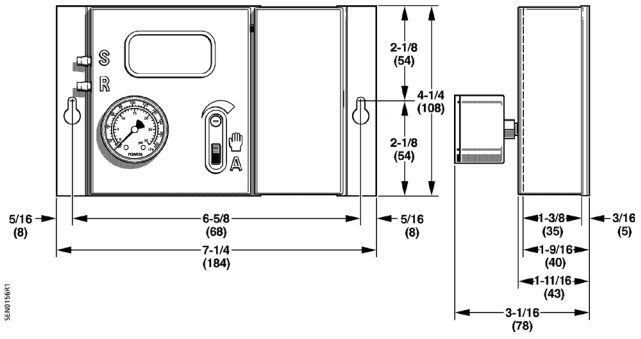


# 545 Transducer Product Ordering

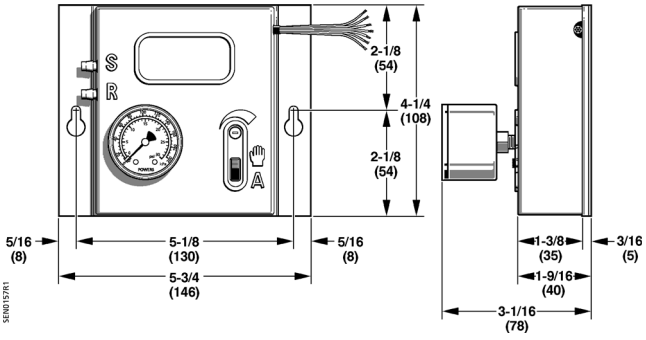
| Description | Part No. |
|---|---|
| **Remote Mount** | |
| AO-P Transducer with Integral Enclosure | **545-208** |
| **Panel Mount** | |
| AO-P Transducer | **545-113** |

# Dimensions and Engineering Drawings

## 545 AO-P Transducer with Integral Enclosure




## 545 AO-P Transducer




Dimensions shown in inches (mm).