



**Pneumatic Transmitter,**  
**Type 4080, ASME B 40.1 Grade 1A ( $\pm 1.0\%$  of span)**  
**Type 4480, ASME B 40.1 Grade 2A ( $\pm 0.5\%$  of span)**

Providing plus-values which will coordinate key functional areas in your plant, this Ashcroft® pneumatic transmitter serves pressure applications throughout all industries. A positive report of process fluid and media performance is provided at designated operational check points by a signal accurately transmitted with maximum efficiency, assuring operating economies and safety.

The Ashcroft transmitter is a self-nulling motion-balance instrument, using a pneumatic relay operating on the nonbleed force balance principle for converting input pressures into proportional low air pressure signals for transmittal to remote indicators or controllers.



#### SPECIFICATIONS

| Types                          | 4080  | 4480  |
|--------------------------------|---|-------|
| Ranges                         | see Standard Ranges   |       |
| Output ranges, psi             | 3-15 & 3-27 (see note below for vacuum application)           |       |
| Supply air requirements        | 18-20 psi for 3-15 psi range;<br>30-35 psi for 3-27 psi range |       |
| Air consumption SCFM           | 0.1   |       |
| Speed of response              | time constant of 4 seconds per<br>500 ft of tubing            |       |
| Air connection                 | 1/4 NPT Female  |       |
| Calibration adjustments        | 5   | 2     |
| Accessories                    | see optional features and accessories                         |       |
| Transmission distance          | 1000 ft   |       |
| Mounting weight                | approximate weight 9 lb                                       |       |
| Accuracy $\pm\%$ of span       | 1.0   | 0.5   |
| Sensitivity $\pm\%$ of span    | 0.1   | 0.001 |
| Repeatability $\%$ of span     | 0.15  |       |
| Actuation                      | Bourdon tube  |       |
| Input sensing element material | 316 SS  |       |
| Ambient temperature effect     | 1/2% per 50°F   |       |
| Process connection             | 1/2 NPT (ordering code 04L)                                   |       |

**Note:** Vacuum application: The transmitted air pressure increases as the measured vacuum approaches zero.

#### STANDARD RANGES

| Process Connection       | Pressure  |             |               | Vacuum      | Compound         |
|--------------------------|-----------|-------------|---------------|-------------|------------------|
| 1/2 Male<br>NPT<br>Lower | 0/8 psi*  | 0/200 psi   | 0/3000 psi    | 10/0 in.Hg* | 30 in.Hg/15 psi  |
|                          | 0/10 psi* | 0/300 psi   | 0/5000 psi    | 15/0 in.Hg* | 30 in.Hg/30 psi  |
|                          | 0/15 psi  | 0/400 psi   | 0/10,000 psi* | 20/0 in.Hg* | 30 in.Hg/60 psi  |
|                          | 0/30 psi  | 0/600 psi   | 0/20,000 psi  | 30/0 in.Hg  | 30 in.Hg/100 psi |
|                          | 0/60 psi  | 0/800 psi   |               |             | 30 in.Hg/150 psi |
|                          | 0/100 psi | 0/1000 psi  |               |             | 30 in.Hg/200 psi |
|                          | 0/160 psi | 0/1500 psi  |               |             | 30 in.Hg/300 psi |
|                          |           | 0/2000 psi* |               |             |                  |

\* Applies to 4480 only.

#### TUBE MATERIALS

| Type Number                    | Range Limits            | Ordering Code | Bourdon Tube Material |
|--------------------------------|-------------------------|---------------|-----------------------|
| <b>4080</b><br>(indicating)    | Vacuum to<br>20,000 psi | S             | 316 stainless steel   |
| <b>4480</b><br>(nonindicating) |                         |               |                       |

#### TO ORDER THESE TYPE 4080, 4480 PNEUMATIC TRANSMITTERS:

**Pressure transmitters** (specify the following):

1. Type number: 4080 indicating, 4480 nonindicating
  2. Bourdon Tube material. Specify material ordering code letter
  3. Range or span (process pressure)
  4. Output range. The standard 3-15 psi range will be supplied unless specified otherwise
  5. Accessories (see page 239-244) or optional features (see page 181)
- Example: 4480S-04L, 3-15# Range 0/100 psi

Consult factory for guidance in product selection  
 Phone (203) 385-0217, Fax (203) 385-0602 or  
 visit our web site at [www.ashcroft.com](http://www.ashcroft.com)

MADE IN U.S.A.

