

# rotork<sup>®</sup>

## Instruments

### Precision Control Low Pressure Electro-Pneumatic Transducers

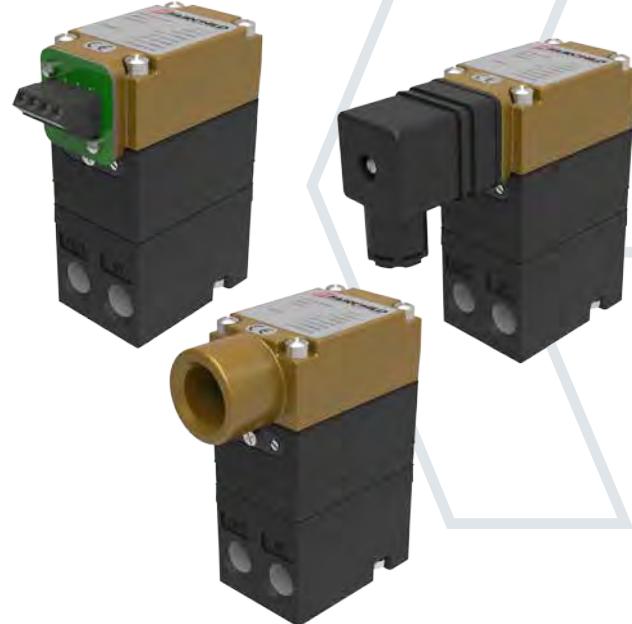
Rotork Fairchild's all new T7500 series I/P Transducer delivers the highest setpoint accuracy at low output pressure ranges of 0-2.5, 0-5, 0-7.5 and 0-15 psig. Output pressure ranges can be ranged down to as low as 0-1 psig.

Using proprietary pneumatic and electronic design, the T7500 accepts supply pressures from 20-30 psig (1.5-2 bar) and mA or VDC control signals to proportionally control the output pressure in very low ranges. While most transducers struggle to accurately and repeatedly hold a low pressure output setpoint, the T7500 will provide 0.25% or better accuracy at pressure ranges as low as 0-1 psig (0-69 mbar) output.

The T7500 is available in a variety of configurations for electrical connection and can be mounted with its standard supplied bracket or DIN rail mounted.

#### T7500 Main Features and Benefits

- Accepts 20-30 psig (1.5-2 bar) supply
- Controls output pressure ranges as low as: 0-1 psig (69 mbar)
- Accuracy to 0.25% guaranteed (0.10% typical) for high performance use
- RFI/EMI protection eliminates susceptibility to electromagnetic and radio interference
- Unaffected by vibration or mounting orientation
- Three styles of electrical connection interface
- Compact size for use in small spaces



## I/P and E/P Transducers T7500

#### Specifications

##### Supply Pressure

- 20-30 psig (1.5-2.0 bar)

##### Accuracy (ISA S51.1)

- 0.25% Full scale guaranteed
- 0.10% Full scale typical

##### Flow Rate (SCFM)

- T7501: 3.0 (5.1 m<sup>3</sup>/hr) @ 30 psig (2 bar) supply 5 psig (0.3 bar) output
- T7502: 7.0 (11.9 m<sup>3</sup>/hr) @ 30 psig (2 bar) supply 5 psig (0.3 bar) output

##### Supply Voltages

- Three wire voltage input: 7.2 to 30 VDC, <3 mA

##### Control Signals

- 4-20 mA 2 wire
- 0-5 VDC 3 wire
- 0-10 VDC 3 wire

##### Materials of Construction

• Body and Housing:	Chromate treated Aluminum
• Orifice:	Nickel plated Brass & Sapphire
• Trim:	Stainless steel, Brass & Zinc plated Steel
• Elastomers:	Nitrile
• Finish:	Epoxy powder coating

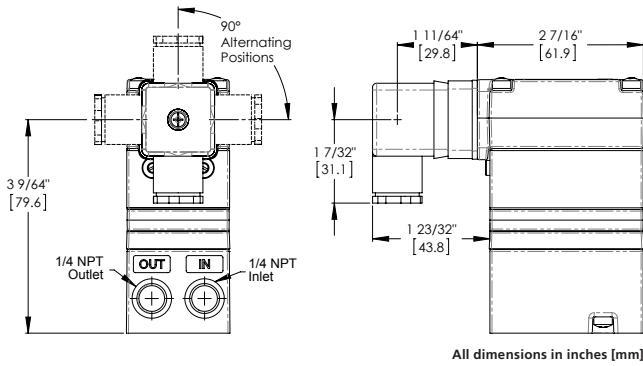


## Keeping the World Flowing

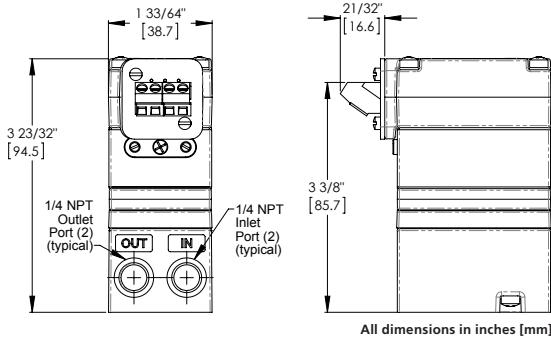
Precision Control Low Pressure  
Electro-Pneumatic Transducers

### Dimensional Data

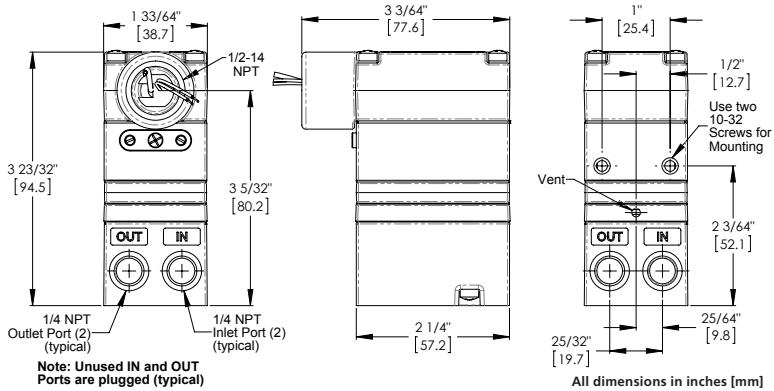
#### TD7500 Dimensions



#### TT7500 Dimensions



#### TA7500 Dimensions



A full listing of the Rotork sales and service network is available on our website.

[www.rotork.com](http://www.rotork.com)

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As part of a process of on-going product development, Rotork reserves the right to amend and change specifications without prior notice. Published data may be subject to change. For the very latest version release, visit our website at [www.rotork.com](http://www.rotork.com)

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### Ordering Information

#### Catalog Number

#### Electrical Connection:

1/2" NPT Conduit w/pigtail . . .	T	75	—	—	—	—
EN 175301-803 . . .	A	7	—	—	—	—
Terminal Block . . .	D	—	—	—	—	—
<b>Main Valve:</b>	T	—	—	—	—	—
3 scfm valve . . .	01	—	—	—	—	—
7 scfm valve . . .	02	—	—	—	—	—
<b>Input:</b>	0	—	—	—	—	—
0-10 VDC . . .	4	—	—	—	—	—
4-20 mA . . .	7	—	—	—	—	—
<b>Output:</b>	—	—	—	—	—	—
0-2.5 psig . . .	01	—	—	—	—	—
0-5 psig . . .	02	—	—	—	—	—
0-7.5 psig . . .	03	—	—	—	—	—
0-15 psig . . .	04	—	—	—	—	—
0-0.17 bar . . .	11	—	—	—	—	—
0-0.35 bar . . .	12	—	—	—	—	—
0-0.5 bar . . .	13	—	—	—	—	—
0-1 bar . . .	14	—	—	—	—	—
0-17 kPa . . .	21	—	—	—	—	—
0-35 kPa . . .	22	—	—	—	—	—
0-50 kPa . . .	23	—	—	—	—	—
0-100 kPa . . .	24	—	—	—	—	—
<b>Port Thread:</b>	N	—	—	—	—	—
NPTF . . .	—	—	—	—	—	—
BSPT . . .	U	—	—	—	—	—

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