



Electro-pneumatic positioner



Doc: YT-1000R/03

Mar 2009

YT1000R ATEX approved Zone I Electro-Pneumatic positioner

General:

The YT-1000R provides electro-pneumatic modulation for rotary (1/4 turn) pneumatic actuators. Fed with a constant air supply to drive the unit (max 100 psi), the YT-1000R sets the position of the actuator relative to a 4-20mA DC input signal. Any change to the input signal results in a corresponding change to the actuator's position. The YT-1000R offers fast and accurate response with low air consumption. An inlet air supply gauge is provided. No output signal is provided.

ATEX:

This explosion proof positioner is ATEX II 2G approved for use in Zone I applications



ATEX Certificate: KEMA 03ATEX 1195

Specifications:

Main air supply	1.4 ~ 7 bar, 20~100 psi
Control signal	4-20 mA DC
Impedance	Max 460 Ohm/ 20mA
Protection	IP 66
Linearity	± 2% Full Scale
Hysteresis	1% Full Scale
Sensitivity	± 0.5% Full Scale
Repeatability	± 0.5% Full Scale
Air consumption	3 l/min @ 1.4 b supply
Flow capacity	80 l/min @ 1.4 b supply
Housing	Aluminium



Features:

- Can be used on single or double acting actuators
- Easy to install orifice plates can help reduce hunting in smaller actuators
- Zero resonance at 5~200Hz
- Simple conversion to reverse acting
- Simple zero and span adjustments

Applications:

Ideal for hazardous areas but also suitable for safe area installations. Provides modulating control receiving control signals from 4-20mA controllers or control systems. 4-20mA input only-no output transmission is supplied.

It is strongly recommended that the supply air is filtered to 5 microns or better to protect the fine internal orifices within the YT-1000R. See our YT filter regulator data sheet(s) for details.

Installation:

The YT-1000R is quick and simple to mount to a Namur compliant drive shaft, using the universal mounting bracket provided with the positioner.

Air connections are 1/4" NPT.
Electrical connection is via a 1/2" cable gland in the EExd junction box.



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Dimensions:

