



Electro-pneumatic positioner



Doc: YT-2700R/0

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YT2700R Fail freeze or fail safe compact SMART Electro-Pneumatic positioner

General:

The YT-2700 Series is a 'smart' positioner in a compact size and controls valve movement of spring return actuators accurately using a 4-20mA input signal.

Using a highly efficient internal microprocessor it performs various and powerful functions such as auto-calibration, PD control, alarms, and HART protocol. An LED display gives a continuous status indication and is used for many other functions.

On control signal failure, the YT-2700 Series can be configured to either fail freeze, or fail safe.

A major benefit of the YT-2700 is that it has almost zero air consumption (0.01L/min at 1.4 bar)

Specifications:

Main air supply	1.4 ~ 7 bar, 20~100 psi
Control signal	4-20 mA DC
Impedance	Max 460 Ohm/ 20mA DC
Protection	IP 66
Linearity	± 0.5% Full Scale
Hysteresis	0.5% Full Scale
Sensitivity	± 0.2% Full Scale
Repeatability	± 0.3% Full Scale
Impedance	Max 460 Ohms / 20mA
Operating temp	-30 to +85C
Consumption	0.01 LPM at 1.4 bar
Flow capacity	22 LPM
Output Characteristics	Linear Equal percentage Quick opening User defined (16 point)
Weight	0.82 kg



YT-2700 Aluminium



YT-2700 - compact size
(Shows linear version)

Features:

- An LCD screen makes it easy to inspect the state of the positioner in the field.
- Various types of information regarding the valve and positioner can be processed by using the optional Hart communication.
- Analogue feedback signal can be used to stabilise the valve.
- Various valve characteristics such as linear, quick open equal percentage and user defined are available as options.
- PD parameters can be adjusted easily in the field by button.

Applications:

The YT-2700 range is suitable for Zone 0 applications (EExia IIC T6) but not in the EU as it is not ATEX approved.

It is strongly recommended that the supply air is filtered to 5 microns or better to protect the fine internal orifices within the YT-2700R. See our YT filter regulator data sheet(s) for details.

Installation:

The YT-2700R 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.
Gauge connections are 1/8" NPT
Conduit connection is G1/2"