

Smart Valve

Digital Electronic Micrometer Throttling Valve



- ✘ Precise flow control and repeatability
- ✘ Position resolution of 0.15% standard, with an option for 0.05% digitally controlled
- ✘ Advanced microprocessor design
- ✘ Robust and reliable mechanical assembly



Smart Valve Features and Benefits

Automated micrometer valve
Remote valve communication
Steady state processing
Self status reporting

Eliminate air valve instability
Exact valve position knowledge
Self diagnostics
Integrated remote control

Applications

Pressure control loop
Blending process
Automated separator cream screw

Temperature control loop
Local flow throttling
Remote flow throttling



Custom programming, controllers and operator interfaces are available with the Smart Valve to provide integrated process control solutions. Standard configurations move the valve to preset recipe positions and allow semi-automatic adjustment. Controller can be interfaced with virtually any central process control.

Specifications—Smart Valve

Length (actuator)	16.0 inches (including yoke)
Diameter (actuator)	4.63 inches
Weight actuator	14.0 lbs.
Actuator stroke	1.00 inch
Position resolution	0.15% (digital option: 0.05%)
Full closed to full open	6 seconds
Thrust	150 lbs.
Sanitary construction	Fluid body, stem, yoke
Valve body and yoke	Industry standard
Enclosure	Stainless steel
Actuator Body	Aluminum
Mounting	Vertical (required)
Ambient temperature limit	130°F
Water resistant construction	
Power Supply	DC 24 Volt, 2 Amp
Connection Cable	9 lead twisted pair
Valve Position Control	4-20mA (full digital control optional)

www.metroninstruments.com

**Sales and Manufacturing
Metron Instruments, Inc.**

P.O. Box 39325
Solon, OH 44139
Phone: (216) 332-0592
Fax: (216) 663-1005

**Technical Service Center
Metron Instruments, Inc.**

11 Industry Street
Poughkeepsie, NY 12603
Phone: (845) 452-1500
Fax: (845) 454-4676

**United Kingdom
On-Line Instrumentation, Ltd.**

Unit A10
Whitemoor Business Park
Selby
England
YO8 7EG
Phone: +44 (0) 1757 282361
Fax: +44 (0) 1757 282362

