

UPC MARATHON

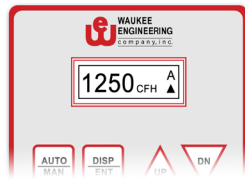
A NITREX COMPANY

VALVE-TRONIC PLUS™ ELECTRONIC FLOW CONTROLLER



VALVE-TRONIC PLUS™

is designed for use in highly demanding industrial applications that require accurate flow control and measurement. It can function as a stand-alone controller for basic applications or become an integral part of a process control system for automatic flow control.



LCD display provides easy-to-read indication of operation values, parameters and faults. Valve-Tronic Plus™ measures and controls the actual flow rate in engineering units.

APPLICATIONS

- Annealing
- Carburizing
- Gas Blending
- Neutral Hardening
- Nitriding
- Sintering

COMPATIBILITY

- All gas types and mixtures
- Liquids including water, alcohol, and methanol

If you are unsure of the gas or liquid compatibility of your application, please contact your UPC representative.



NITREX nitrex.com

VALVE-TRONIC PLUS™

Direct Replacement
of Valve-Tronic 3.5



Eco-friendly technology

FEATURES & BENEFITS

- Large LCD display provides vital information such as actual flow rate, totalized flow, valve position, alarms, and diagnostic messages
- Simple and intuitive programming menus
- Field programmable engineering units
- Waukee's new magnetic sensor technology immune to problems related with dirty oil
- Configurable to control based on rate of flow or valve position for applications where the Process Variable (PV) is Dew-point, Carbon Potential, etc.
- Standard Modbus TCP for easy integration with control systems
- Manual actuation of valve possible
- Easy to install
- Ideal for customers who need to control and data log flow rates for compliance to NADCAP, AMS2750, or CQI 9
- Field calibration for zero and span
- Advanced polynomial calibration for high accuracy over the entire range of the meter
- Built-in Web Server with remote access to device
- Full PID setpoint control
- Calibration in state-of-art ISO/IEC 17025:2005 accredited laboratory

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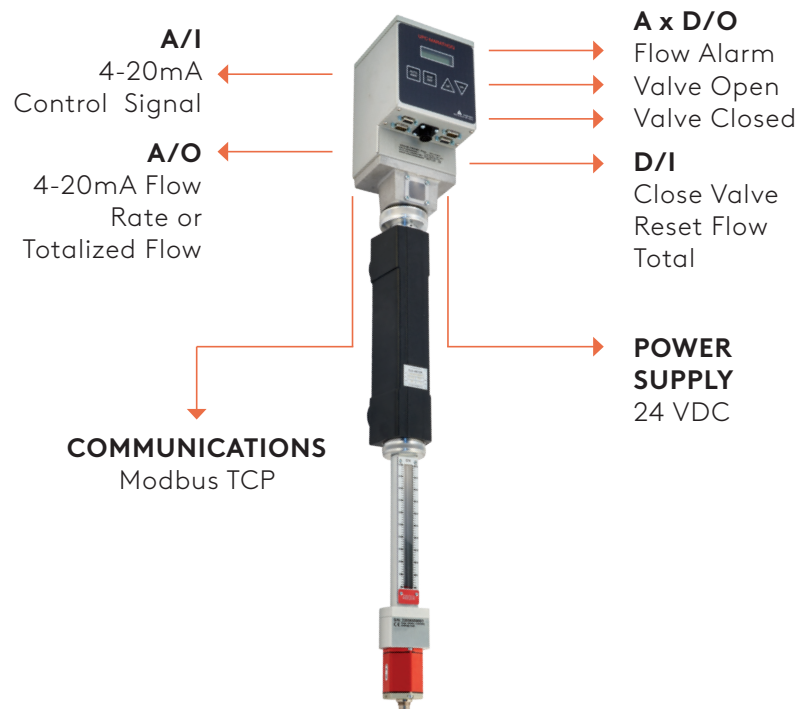
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VALVE-TRONIC PLUS™ ELECTRONIC FLOW CONTROLLER



Eco-friendly technology

CONTROL DIAGRAM



WEB SERVER FEATURES

- Remote access to the device via web browser, no special software required
- Intuitive web interface
- Several access levels with passwords
- Access up-to-the-minute information on the current flow, totalized flow, PID feedback, valve position, current mode, errors, and much more
- Easy setup of parameters
- Built-in event log viewer for troubleshooting
- Logs export to CSV format
- Save, upload, back-up and restore configuration files
- Option to upload configuration files to multiple controllers

SPECIFICATIONS

POWER REQUIREMENTS:	500mA @ 24 VDC ±10%			
DIGITAL INPUT:	1 Input, 24 VDC (programmable)			
DIGITAL OUTPUT:	3 Outputs, 24 VDC, 1.0A max (programmable)			
SETPOINT INPUT SIGNAL:	Isolated 4-20mA			
FLOW/TOT. OUTPUT SIGNAL:	Isolated 4-20mA			
MAX OPERATING TEMP.:	Ambient: 140°F (60°C) Media: 200°F (93°C)			
MAX PRESSURE:	100 PSIG (7 bar)			
PRESSURE DROP:	≤ 2" W.C. (5 mbar)			
RECOMMENDED INLET PRESSURE:	≥ 0.5 PSI; 14" W.C. (35 mbar)			
SCALE:	MODEL S	MODEL M	MODEL L	MODEL SF
AIR: (70°F; 14.7 PSIA / 21°C; 1 bar)	4-100 CFH (0-3 m ³ /hr)	10-1,500 CFH (0-42 m ³ /hr)	150-18,000 CFH (4-510 m ³ /hr)	LIQUID: 0.2-25 GPH (0.75-95 l/hr)
TURNDOWN RATIO:	10:1	12.5:1	15:1	-
ACCURACY: † VDE/VDI 3513 SH.2, QG=50%	5%	4%	3%	-
MAX OPERATING PRESSURE:	90 PSIG (6 bar)	75, 90 PSIG (5, 6 bar)	5, 10, 30, 75 PSIG (½, 0.7, 2, 5 bar)	90 PSIG (6 bar)

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