

VALVE-TRONIC Plus™ **Electronic Flow Controller**

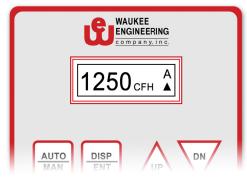




Valve-Tronic Plus™ is designed for use in highly demanding industrial applications that require accurate flow control and measurement. It can function as a stand-alone controller for basic applications or become an integral part of a process control system for automatic flow control. The Valve-Tronic Plus™ is available with optional Temperature / Pressure compensation for real-time flow correction, providing the most accurate flow measurement possible.

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
- Optional Temperature / Pressure compensation for added accuracy
- · Manual actuation of value possible
- · Easy to install
- · Ideal for customers who need to control and data log flow rates for compliance to NADCAP, AMS2750D, 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 state-of-art ISO/IEC in 17025:2005 accredited laboratory



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.

APPL

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, Waukee please contact your representative.

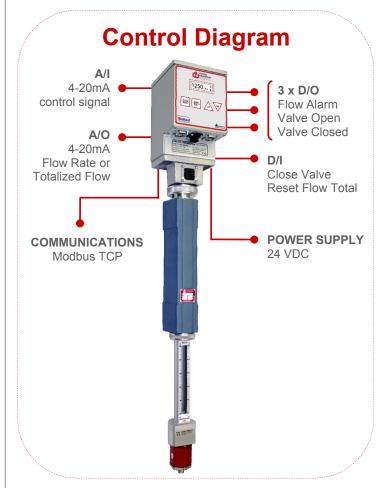


VALVE-TRONIC Plus ™ Electronic Flow Controller

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/Totalized Output Signal: Isolated 4-20mA

Scale: Air (70°F; 14.7 PSIA / 21°C; 1 bar)

Model S: 4-100 CFH (0-3 m³/hr) Model M: 10-1500 CFH (0-42 m³/hr) Model L: 150-18,000 CFH (4-510 m³/hr)

Liquid

Model SF: 0.2-25 GPH (0.75-95 l/hr)

Turndown Ratio: Model S: 10:1

Model M: 12.5:1 Model L: 15:1

Accuracy: † VDE/VDI 3513 sh.2, q_G=50%

Model S/SF: 5% Model M: 4% Model L: 3%

Max Operating Temperature: Ambient: 140°F (60°C)

Media: 200°F (93°C)

Max Pressure: 100 PSIG (7 bar)

Max Operating Pressure: Model S/SF: 90 PSIG (6 bar)

Model M: 75, 90 PSIG (5, 6 bar) Model L: 5, 10, 30, 75 PSIG (1/3, 0.7, 2, 5 bar)

Pressure Drop: ≤ 2" W.C. (5 mbar)

Recommended Diff. Pressure: ≥ 0.5 PSI; 14" W.C. (35 mbar)

† VDE/VDI





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