Valve-Tronic Plus™
Electronic Flow Controller

United PROCESS CONTROLS

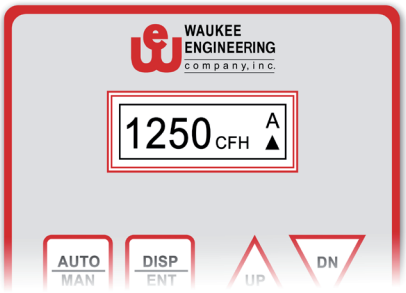
Direct Replacement of Valve-Tronic 3.5

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.

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 value 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



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.

ISO IEC NFPA MEMBER

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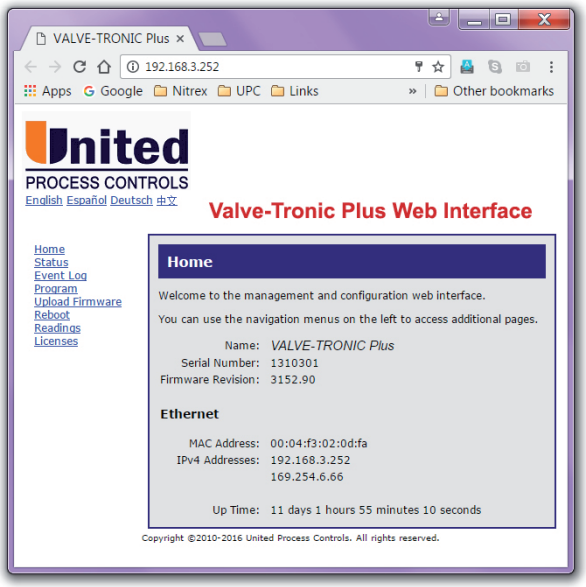
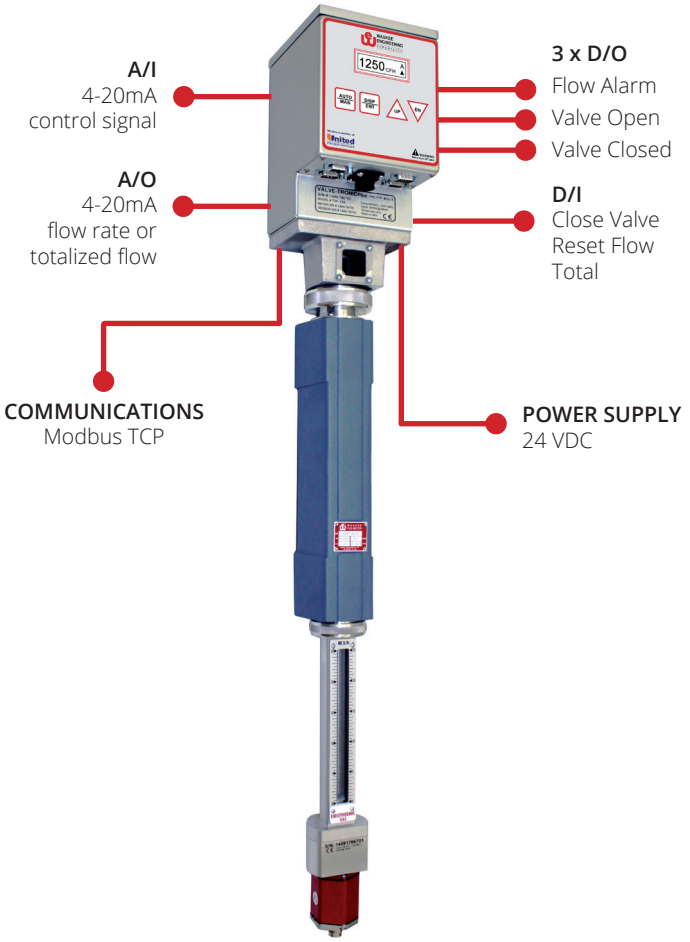
WEB SERVER FEATURES

- 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



CONTROL DIAGRAM



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 m^3/hr) Model M: 10-1500 CFH (0-42 m^3/hr) Model L: 150-18,000 CFH (4-510 m^3/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 (⅓, 0.7, 2,5 bar)
Pressure Drop:	≤ 2" W.C. (5 mbar)
Recommended Inlet Pressure:	≥ 0.5 PSI; 14" W.C. (35 mbar)

† VDE/VDI

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