



FLO-TRONIC Plus™ is based on a standard FLO-METER™ with or without a manual flow control valve. The FLO-TRONIC Plus™ provides visual flow rate indication as required by NFPA as well as an analog output in direct relation to the flow rate.

Waukee's new magnetic flow sensing technology is immune to problems associated with dirty oil.

Ideal for customers who need to data log flow rates for compliance to NADCAP, AMS 2750D, or CQI 9.



FEATURES & BENEFITS

- Meets NFPA requirements for visual indication of flow
- Isolated 4-20mA current loop output
- Over current and reverse polarity protection
- Calibrated in our ISO/IEC17025-2005
- Calibration Lab and traceable to NIST (National Institute of Standards and Technology)
- Multipoint calibration
- Simple Installation
- Easily connects to any PLC or controller with differential or single ended analog inputs
- Easy to maintain
- Retrofittable to most existing Waukee Flow-Meters

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.



SPECIFICATIONS

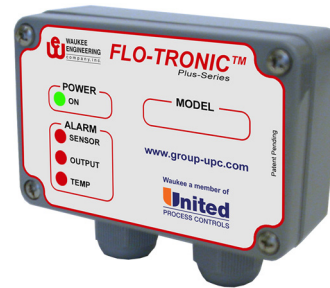
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| Power requirements: | 75mA24VDC (±10%) |
| Isolated Input: | Field Selectable 0-20mA, 4-20mA, 0-10VDC, 2-10VDC |
| Scale: | Air (70°F; 14.7 PSIA / 21°C; 1 bar) Model S: 4-100 CFH (0-3 m³/hr) Model M: 10-1500 CFH (0-42 m³/hr) Model L: 150-40,000 CFH (4-1133 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: 150°F (65°C) Media: 200°F (93°C) |
| Max Pressure: | 100 PSIG (7 bar) |
| Operating Pressure: | ≤ 90 PSIG (6 bar) |
| Pressure Drop: | ≤ 2" wcg (5 mbar) |
| Alarm Relay: | SPST 0.5A@30VDC |

ALARM RELAY WIRING

The FLO-TRONIC Plus™ includes an Alarm Relay, on power up the relay is energized to indicate that the unit has power. The relay will de-energize under the following alarm conditions:

- Loss of Power
- Loss of Sensor Signal
- Over Temperature Condition
- Output Wiring Problem

CONTROL DIAGRAM



- **A/O**
Flow Rate
4-20mA, 0-20mA,
2-10VDC, 0-10VDC
- **D/O**
Loss of Sensor
Over Temp
Output Wiring
Problem

ALSO AVAILABLE



VALVE-TRONIC Plus™
Precision flow control and measurement for the most demanding industrial applications



EndoFlex™ Endothermic Gas Generator™

The EndoFlex™ is an advanced endothermic gas generator with an extensive list of features to improve gas reaction efficiency while also providing sensors to diagnose most common gas generation issues before they become problems.

Visit our website for more products and services from United Process Controls.

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