

## FLO-TRONIC Plus™ Flow Meter



**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.

Direct  
Replacement of  
Waukee-Tronic

### 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 Flo-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 Waukee representative.*

# FLO-TRONIC Plus™ Flow Meter

## Specifications

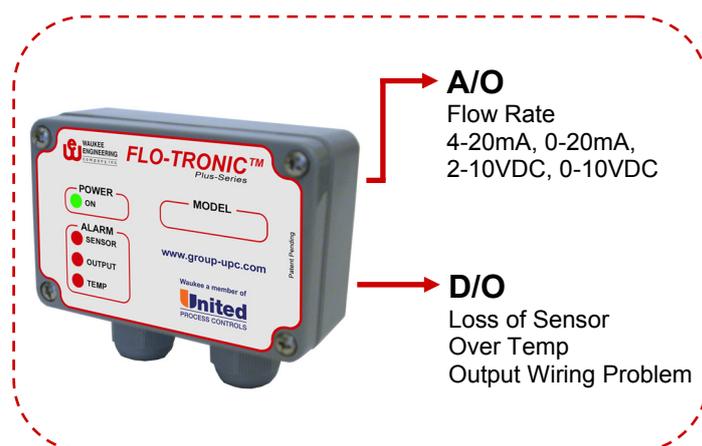
<b>Power requirements:</b>	75mA24VDC (±10%)	
<b>Isolated Output:</b>	Field Selectable 0-20mA, 4-20mA, 0-10VDC, 2-10VDC	
<b>Scale:</b>	Air (70°F; 14.7 PSIA / 21°C; 1 bar) Model S: 4-100 CFH (0-3 m <sup>3</sup> /hr) Model M: 10-1500 CFH (0-42 m <sup>3</sup> /hr) Model L: 150-40,000 CFH (4-1133 m <sup>3</sup> /hr) Liquid Model SF: 0.2-25 GPH (0.75-95 l/hr)	
<b>Turndown Ratio:</b>	Model S/SF	10:1
	Model M:	12.5:1
	Model L:	15:1
<b>Accuracy:</b>	VDE/VDI 3513 sh.2, q <sub>G</sub> =50%	
	Model S/SF:	5%
	Model M:	4%
	Model L:	3%
<b>Max Operating Temperature:</b>	Ambient	150°F (65°C)
	Media	200°F (93°C)
<b>Max Pressure:</b>	100 PSIG (7 bar)	
<b>Operating Pressure:</b>	≤ 90 PSIG (6 bar)	
<b>Pressure Drop:</b>	≤ 2" wcg (5 mbar)	
<b>Alarm Relay:</b>	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



## Also Available

### NEXT GENERATION



#### VALVE-TRONIC Plus™

Precision flow control and measurement for the most demanding industrial applications



#### ACCUMIXOR™

Precisely controls and monitors the flows of nitrogen and methanol for the generation of synthetic Endothermic gas within a furnace



#### ACCUBLENDOR™

Endothermic generator control system that provides a cost-effective solution for gas mixing requirements



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