

# UPC MARATHON

A NITREX COMPANY

## WAUKEE FLO-TRONIC PLUS™ FLOW METER



### DESCRIPTION

FLO-TRONIC Plus™ is based on a standard FLOMETER™ 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.

### 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.



## WAUKEE FLO-TRONIC PLUS™

Direct Replacement  
of Waukee-Tronic



Eco-friendly technology

### 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

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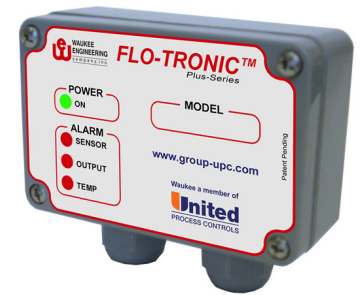
### ALARM RELAY WIRING

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



### SPECIFICATIONS

<b>POWER REQUIREMENTS:</b>	75mA24VDC (±10%)
<b>ISOLATED INPUT:</b>	Field Selectable / 0-20mA, 4-20mA / 0-10VDC / 2-10VDC
<b>MAX OPERATING TEMPERATURE:</b>	Ambient: 150°F (65°C) / Media: 200°F (93°C)
<b>MAX OPERATING PRESSURE:</b>	100 PSIG (7 bar)

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<b>OPERATING PRESSURE:</b>	≤ 90 PSIG (6 bar)
<b>PRESSURE DROP:</b>	≤ 2" wcg (5 mbar)
<b>ALARM RELAY:</b>	SPST 0.5A@30VDC

SCALE:	MODEL S	MODEL M	MODEL L	MODEL SF
<b>AIR:</b> (70°F; 14.7 PSIA / 21°C; 1 bar)	4-100 CFH (0-3 m <sup>3</sup> /hr)	10-1,500 CFH (0-42 m <sup>3</sup> /hr)	150-40,000 CFH (4-1140 m <sup>3</sup> /hr)	<b>LIQUID:</b> 0.2-25 GPH (0.75-95 l/hr)
<b>TURNDOWN RATIO:</b>	10:1	12.5:1	15:1	-
<b>ACCURACY:</b> † VDE/VDI 3513 SH.2, QG=50%	5%	4%	3%	5%

### 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.

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