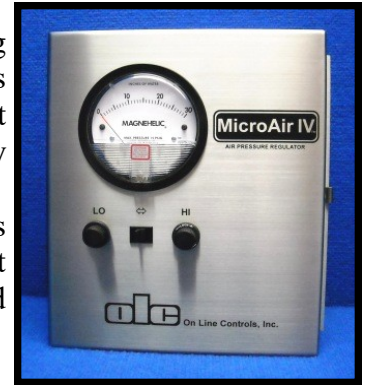


MicroAir

Ultra Low Air Pressure Regulator and Controllers for Tubing Extrusion



For precise control of outside diameter during tubing extrusion, the MicroAir line of air pressure regulators and controllers regulates air pressure to an exact set point. Stable, reliable pressure is maintained for widely varying flow rates such as when a cut is made, etc. The “force balance regulator” provides instantaneous response to changes in flow rate and maintains a set pressure with flow rates from near zero up to the rated maximum.



Types/Model

MicroAir I
MicroAir II
MicroAir IV
Dual MicroAir I
Dual MicroAir II
Dual MicroAir IV
MultiAir 3-channel
MicroAir I
MultiAir 3-channel
MicroAir II
MultiAir 3-channel
MicroAir IV
MultiAir 4-channel
MicroAir IV

Options available on MicroAir II & IV units:

Digital Display

Voltage output
4-20 ma output
Remote Control
(MAII)

Features:

- Regulates air pressure to a set point
- Controls outside diameter
- Precision output pressure display
- Ultra Low ranges:
 - 0 - 3” of water
 - 0 - 5” of water
 - 0 - 15” of water
 - 0 - 30” of water
 - 0- 50” of water
 - 0 - 3 psi
 - 0 - 5 psiOthers available upon request.
- Stainless steel enclosure
- Hysteresis free regulating action
- Manual control and auto control models
- High speed model that accepts a 0-10 volt input for control
- Multiple channels for multi-lumen tubing.

Models Available:

MicroAir I

Manual model controlled by a single knob
(30 turn adjustment)

MicroAir II

Accepts contact closure inputs. Up/Down manual control dual speed push buttons on the front or motorized Up/Down remote control ready for solid state or mechanical relays by internal screw terminals. Dual selectable voltage input 110 or 220 volt. Zero to Full Scale in approximately 2 minutes.

MicroAir IV

Dual-state using a logic signal or Linear mode using a 0-10 volt input to control pressure by extrusion line equipment such as the PLC. Designed use in manufacturing bump and tapered tubing where the pressure must be instantaneously switched or varied in a controlled way. A precision voice-coil linear motor with viscous damping ensures optimum speed and stability. Control knobs for Hi and Low set points. Responds to a step of 50% of full scale in less than 0.1 second (typically 20-30 msec).




ole On Line Controls Inc.



“Supplying over 35 years of quality and reliability to the extrusion industry”

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Ultra Low Air Pressure Regulators and Controllers for Manufacturers of Extruded Tubing

Model	Case Dimensions	Functionality	Power Inputs	Control Inputs	Options
MicroAir I MAI	12" x 10" x 6"	30-turn manual knob	N/A	N/A	N/A
Dual MicroAir I DMAI	16" x 10" x 6"				
3-Channel MicroAir I MU3MAI	20" x 10" x 6"				
MicroAir II MAII	12" x 10" x 6"	*Up/Down Manual control dual speed-push buttons * Motorized Up/Down remote control ready for solid state or mechanical relays	110/220 VAC 50/60 Hz	3 Internal screw Terminals Up/ Down / Gnd Up/Down Inputs Open: Inactive Close to Gnd: Active	*Additional (LED) Digital pressure readout *Voltage pressure output 1-6, 0-5 or 0-10 VDC * 4-20 ma pressure output * Remote control unit 
Dual MicroAir II DMAII	15" x 10" x 6"		Selectable 3 conductor grounded IDC power cord (supplied)		
MultiAir 3-channel MicroAir II MU3MAII	21" x 12" x 6"				
MicroAir IV MAIV	12" x 10" x 6"	*High speed motorized Up/Down remote control ready for 0-10 VDC signal.	110/220 VAC 50/60 Hz	2 Internal screw terminals +/- +Input Analog control 0-10 VDC	*Additional (LED) Digital pressure readout. *Voltage pressure output 1-6, 0-5 or 0-10 VDC
Dual MicroAir IV DMAIV	15" x 10" x 6"				
MultiAir 3-channel MicroAir IV MU3MAIV	22" x 10" x 6"	*10 turn Manual Control potentiometer.	Selectable 3 conductor grounded IDC power cord (supplied)	Dual State Control Close to—or 0 to +1 VDC: High Open or +4 to +24 VDC: Low	* 4-20 ma pressure output.
MultiAir 4-channel MicroAir IV MU4MAIV	28" x 10" x 6"	* Hi speed motorized dual pressure remote switching.			

RANGES for Air Output (Inch wc = inch of water column)	Max Output Flow Rate SCFH = Standard Cubic Feet per hour
2 inch wc	5 SCFH
5 inch wc	11 SCFH
15 inch wc	25 SCFH
30 inch wc	40 SCFH
3 psi	70 SCFH
5 psi	90 SCFH
Other pressure readouts/ranges available	

All MicroAir units:

- Have a 4 1/2" magnehelic meter for pressure readout.
- Need to be located close to the Die with 1/4" NPT male fittings.
- Connect Leftside in / Rightside out on single units or bottom connections on Dual and MultiAirs.
- Use four 5/16" diameter holes for essential vertical mounting.
- Air connections—plant air regulated down to 50 psi for single units and 55 psi for MultiAirs.
- **WARRANTY: 3 years**
- **MADE IN The U.S.A.**

