

# Type 3111

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Product Information  
Model 3111 Electronic Controller

MB T-3111 Electronic Controller



## Features

- Very compact
- Mounts on panel, DIN rail, or directly to multi-station manifold
- Not sensitive to mounting orientation
- No air consumption at steady state output pressure
- Multiple command/monitor signals
- Closed single loop control
- Manual override for output span adjustment
- Selectable jumpers for input ranges

## Applications

- Heating, Ventilating and Air Conditioning Applications
- Instrumentation
- Vent Hood Control
- Medical
- Damper Control

## Operational Description

- The 3111 electro-pneumatic servo pressure controller is an economical version of the 3110. At only 2" by 2.8" the 3111 electro-pneumatic servo pressure controller is the most compact card-mounted units in the Marsh Bellofram product line.
- Field Selectable Inputs are 0-5 VDC, 0-10 VDC, 0-15 VDC, or 0-20 mA. A 0-5 VDC monitor signal is standard.
- A temperature compensated pressure sensor in the manifold block provides accuracy to  $\pm 0.5\%$  or better, full scale.
- Many output ranges are available, from 29" Hg/740mm Hg vacuum to 150 psig/10 BAR.
- Two manifold blocks are available to provide a choice of mounting:
  1. Front ports (as shown) to mount directly to a panel or inserted into a DIN rail tray.
  2. Bottom ports to mount on a multi-unit manifold. Custom multi-unit manifolds available.

*ElectroPneumatics*

**MB** MARSH BELLOFRAM<sup>®</sup>  
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# SPECIFICATIONS

## PNEUMATICS

*Output Pressure	0 to 150 psig (10.3 BAR)
Flow	1.25 SCFM max. (35.3 slpm)
Filtration	40 micron built-in
Linearity (independent)	± 0.2% FS
Repeatability	± 0.3% FS
Accuracy	± 0.5% FS
Hysteresis	± 0.5% FS
Supply Pressure	110% of max. output

\* other output ranges available

## ELECTRICAL

Supply Voltage	24 VAC or 15-24 VDC
Supply Current	80 mA standby; 250 mA max
Command Signal	
Voltage	Field Selectable (see figure A)
Current	0-20 mA (see figure A)
Analog Monitor Output	0-5 VDC

## ENVIRONMENTAL

Operating Temp	32 to 141°F (0 to 60°C)
Connector	5 position terminal block

## FIELD SELECTABLE INPUT RANGES

No Jumper installed	=	0 - 5 VDC
Jumper on V10	=	0 - 10 VDC
Jumper on V15	=	0 - 15 VDC
Jumper on M20	=	0 - 20 mA

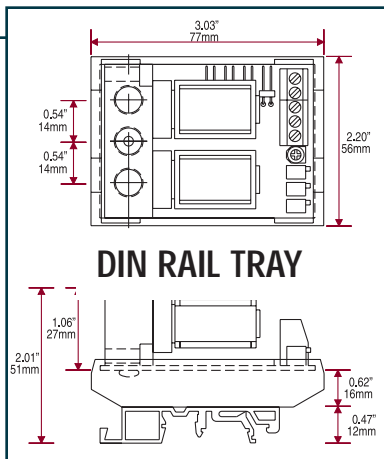
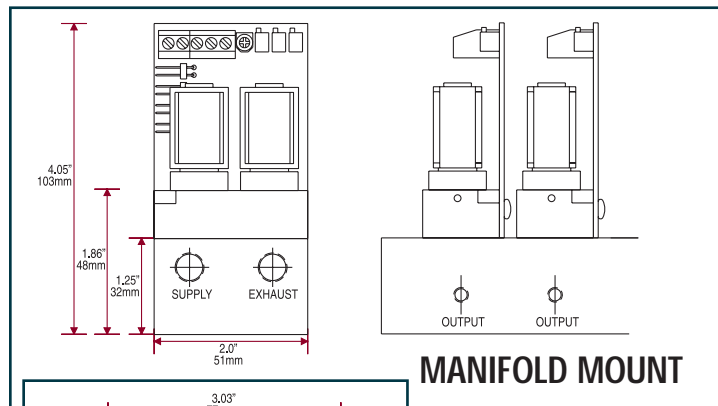
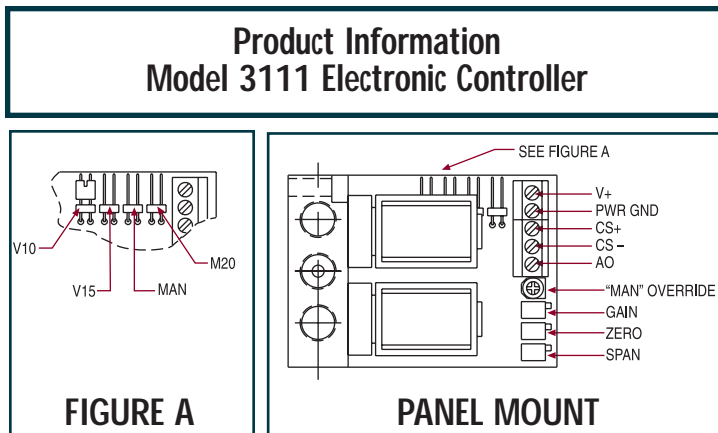
## MANUAL/AUTO JUMPER

No Jumper installed on MAN	=	"Auto" mode
Jumper installed on MAN	=	"Manual" mode
V (+)	-	24 VAC or 24 VDC
Pwr GND	-	GND
CS (+)	-	Positive Command Signal
CS (-)	-	Negative Command Signal
AO	-	Analog Monitor Output

## HOW TO CREATE A 3111 PART#

BASE MODEL NUMBER	COMMAND SIGNAL	OUTPUT PRESSURE RANGE	MOUNTING	PORT SIZE	CONNECTOR	OPTIONS
1 1 1 Z					0	
<b>E</b> 0-10 VDC	Please indicate the lower limit of output pressure range down to <b>0</b> psi absolute $\infty$	<b>G</b> Gauge (psig)	<b>D</b> DIN Rail Mount	<b>0</b> $\Delta$ 1/8" NPT Input & Output Ports & Manifold Mount	<b>0</b> Terminal Block	<b>0 0</b> No Options
<b>I</b> 0-20 mA		<b>A</b> Absolute (psia)				
<b>0</b> 0-5 VDC		<b>V</b> Vacuum ("Hg)				
<b>1</b> 0-15 VDC		<b>W</b> Water column ("H <sub>2</sub> O)				
		Please indicate the upper limit of output pressure range up to <b>1 5 0</b> psig	<b>P</b> Panel Mount	<b>1</b> 1/8" BSPT Input & Output Ports		
			<b>M</b> Manifold Mount (Manifold must be ordered separately)	<b>2</b> 1/8" BSPP input and output ports		

ORDERING EXAMPLE: 111ZI2A018P0000 - This is a Type 3111 with a 0-20 mA command signal calibrated for a 2 to 18 psia output range with a panel mount, 1/8" NPT ports and no options. (Terminal block connector is standard for this unit.)



*For more information  
please contact the  
Applications Department*