

Electronic Specifications

- Operator Interface:** Four digit alpha-numeric display with four tactile response push buttons: (1) program, (1) select, (1) increment value, (1) decrement value
- Programming:** All entries via operator interface configuration completely menu driven; values protected in EE prom (no battery back-up required)
- Power:** 18-35 VDC (125mA/3 watts @ 24 VDC) or 18-26 VAC (280mA/7 watts @ 24 VAC)
- Output(s):** Analog, sourced by Mach One: 4-20mA into 350 Ohms, isolated (500 Ohms @ 24 VDC, non-isolated) Analog, sourced by user: 4-20mA into 600 Ohms @ 24 VDC Supply
- NOTE:** Analog output selectable for isolated, non-isolated, direct/reverse acting, sourcing at Mach One or sourcing by user (simulates a two-wire system). All output types and options available on all models.
- Program Modes:** Run (% level, range, echo amplitude, echo count, temperature) diagnostic, min/max range, echo rate, average count, loop test, loop failure, lost echo delay, temperature offset

- Signal Processing:** Echo Discrimination System (EDS)
- Output Dampening:** Configurable from 2-15 transmit pulses
- Blanking:** Adjustable, both minimum and maximum, from 12 to 480 inches (0.3m to 12m)
- Span Range:** 0.10 to 300 inches (2.5mm to 11.8mm), full scale

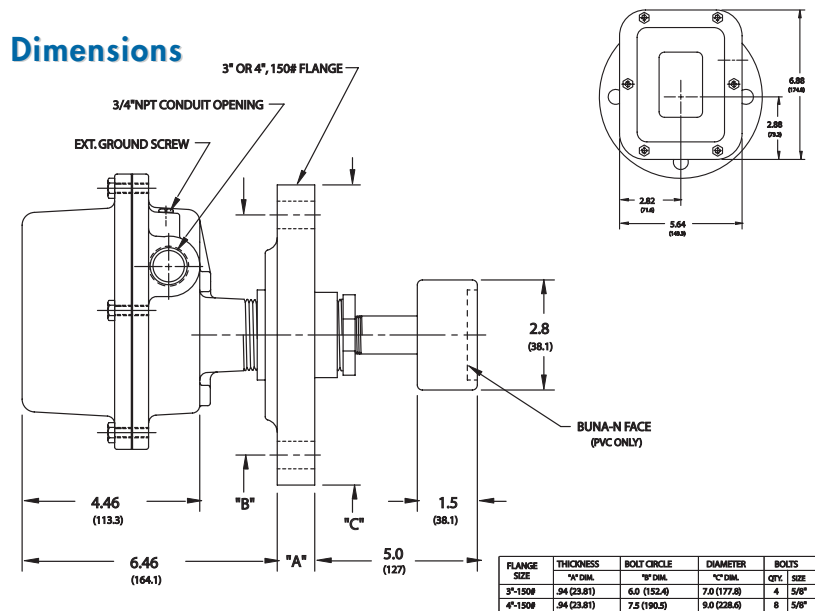
Performance

- Measuring Range:** 14 to 300 inches (0.35m to 7.6m) measured from transducer face
- Minimum Range:** 15 inches (381mm) from transducer face for analog output
- Accuracy:** ± 0.5% of range
- Repeatability:** ± 0.25% of range
- Cone Angle:** 10° half angle (360° radius, measured to 3 db out)
- Operating Temperature:** -40° F to 140° F (-40° C to 60° C)
- Enclosure:** NEMA 4X or NEMA 7/9 - cast aluminum, polyester coated. Both integral and remote electronics available
- Approvals:** CSA Class I Groups C and D, Class II Groups E, F and G (Integral and remote versions using S.S. transducer and metal mounting flanges only)

Transducer /Mounting

- Transducer Materials:** PVC w/Buna-N Face, CPVC, 316 Stainless Steel
- Flange Mountings (3 or 4 Inch, ANSI 150 lb):** PVC, CPVC, 316 Stainless Steel; Carbon Steel; PVDF (Kynar®)
- Temperature:** PVC 0° to 135° F (-10° C to 57° C), CPVC -40° to 165° F (-40° C to 74° C), Teflon® - 40° F to 165° F (-40° C to 74° C), 316 S.S. -40° to 185° F (-40° C to 85° C)
- Performance**
- Metal Transducers:** 100 psi @ 80° F (7Kg/cm² @ 26° C)
50 psi @ 165° F (3.5Kg/cm² @ 74° C)
- Plastic Transducers:** 60 psi @ 80° F (4.2Kg/cm² @ 26° C)
40 psi @ 135° F (2.8Kg/cm² @ 57° C)

Dimensions



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