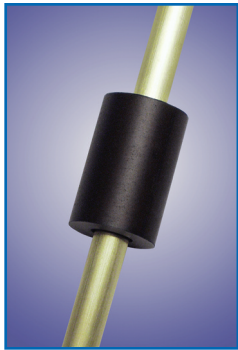


Continuous Level Transducer



*Model C4651
with Buna-N Float*



*Model C4651 with
Polypropylene
Float*



*Model C4651 with
Stainless Steel Float*

Madison's continuous level transducers are designed for vertical mounting in a tank. Reed switches are evenly spaced over the operation range to achieve the desired resolution. A single magnet-containing float travels the length of the sensing range. The reed switches are magnetically actuated as the float moves with the liquid level. DC power is applied to the switch, and the output signal can then be routed to programmable controllers, microprocessors or other readout devices.

Model C4651 is a 1/4" resolution continuous level float switch with a stainless steel or brass stem and is available with either a stainless steel, polypropylene or Buna-N float.

Suitable for petroleum-based liquid applications, in addition to many other liquids with low- to mid-range viscosity.

CL

Features

- Flexibility for varied fluid environments
- Suitable for any tank application
- Provides precise, uninterrupted readout with 1/4" resolution
- Various output signals available (4-20 mA, 1-5 DC, resistive, etc.)
- Ideal for:
 - Remote sensing in tanks with restricted or limited access
 - Precise liquid level monitoring in a series of tanks in mixing operations
 - Central monitoring of liquid level in remote multiple tanks
 - Any tank application where the exact liquid level has to be known at any time

Specifications

Resolution – 1/4"

Signal Output – 100 ohms per 1/4", 1/4 Watt resistive
 3-wire: 1-5 V output
 2-wire: 4-20 mA output

Wiring Details – 2-wire: Red - positive
 Black - negative
 3-wire: Red - positive
 Black - negative
 White - signal out

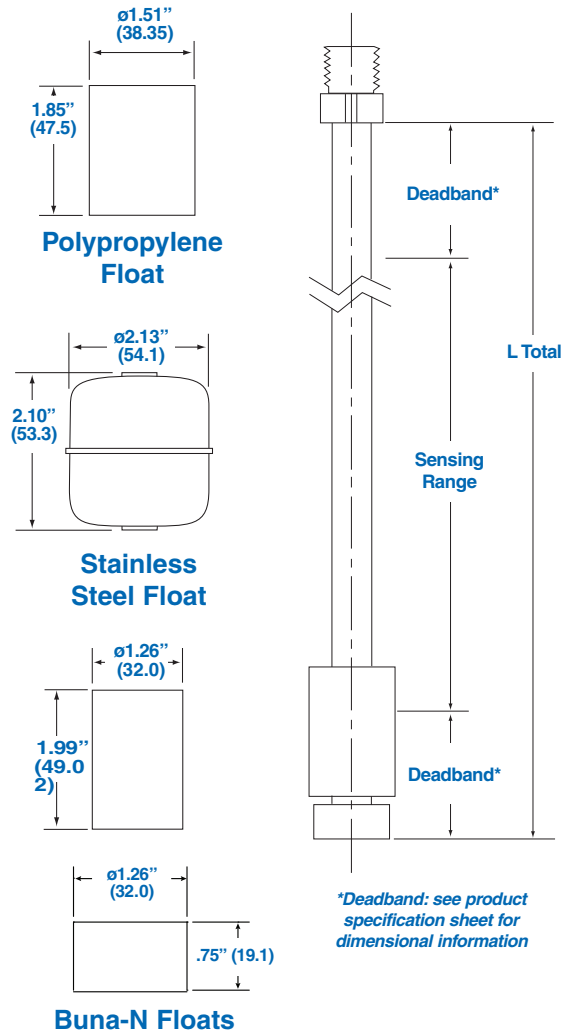
Switch

Materials – 316 SS *or* brass stem *and*
 Buna-N float *or*
 Stainless float *or*
 Polypropylene float

Sensing Length – 6" to 96"
 Note: overall switch length will be longer,
 to allow float travel over the sensing range

Operating Temp. – -40°C to 105°C (-40°F to 221°F),

Approval – UL, CE approval.



Options

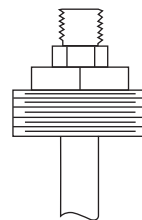
Fitting Options:

Representative samples at right

- 1/2", 3/4" NPT inside mount
- 1-1/4", 1-1/2" or 2" NPT outside mount*
- Other mounting options available



Inside Mount



Outside Mount

*1-1/4" NPT external mount Buna Floats Only
 1-1/2" NPT external mount not available with stainless float

All specifications are subject to change without notice.



Sensor solutions for today and the future™



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C Series Specification Sheet

1/4" Resolution Continuous Float Level Sensors - Standard

Madison Company can engineer continuous level sensors to meet your application needs. Please provide the information requested below so that our Engineering Department can determine the appropriate design for your application. Standard units can be configured through the online configurator.

Company: _____ Contact Name: _____
 Address: _____
 Phone No.: _____ E-mail: _____
 Fluid Type: _____ Lead Source: _____

C4651 - 1/4" Resolution

Mounting Fitting:

External NPT Mount:

1-1/4" (Buna Floats Only)
 1-1/2" (Buna and Polypropylene Floats)
 2" (All Floats)

Internal NPT Mount:

1/2" (All Floats)
 3/4" (All Floats)

Wetted Materials:

Stem / Float:

* Stainless Steel / SS Float, 2.1"
 Stainless Steel / Buna Float, 1.9"
 Stainless Steel / Polypropylene
 Brass / Buna Float, 1.9"

* Stainless Steel / SS Float, 1.63" OD
 Stainless Steel / Buna, 0.75" High
 Brass / Buna Float, 0.75" High

* Note: SS/SS models are available with UL Class I, Div. I Haz. Loc approval

Signal Output:

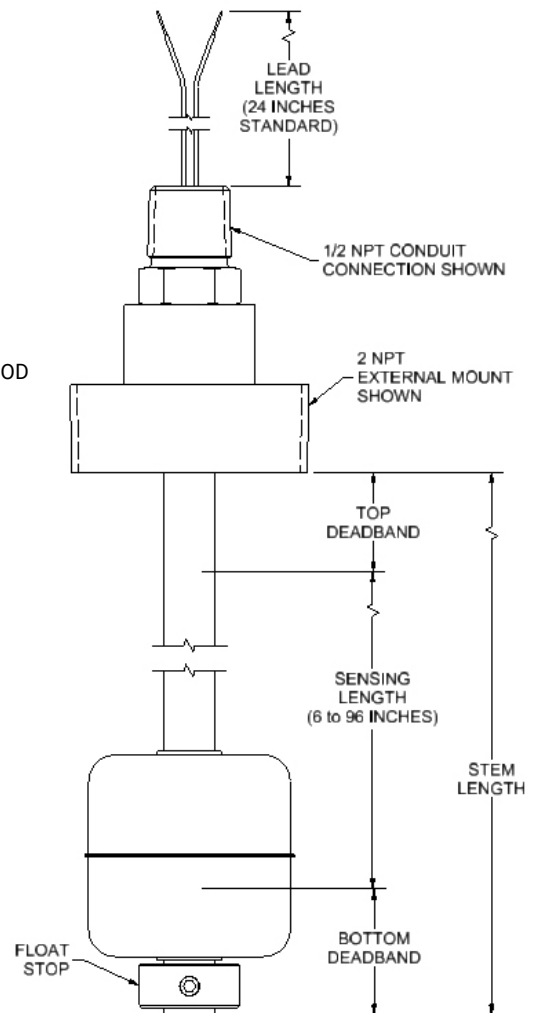
2-Wire; Resistive (Standard; See Chart Below)*
 2-Wire; 4-20 mA (20 mA at fitting)*
 3-Wire; 1-5 VDC (5 VDC at fitting)

* 100 Ohms per step, 1/4 watt

Lengths:

Provide Sense Lengths or Length Total

Sensing Length (6" to 96") _____
 Plus Top Deadband _____
 Stem Length _____
 Lead Length, (24" Standard) _____



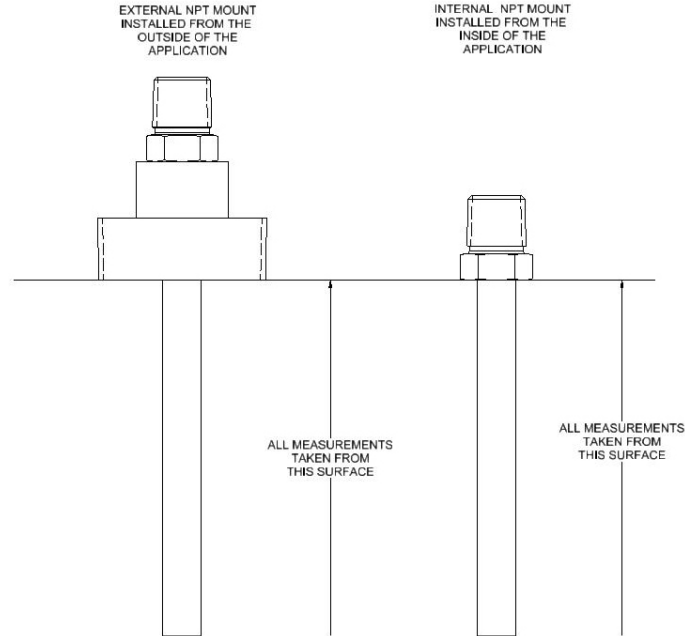
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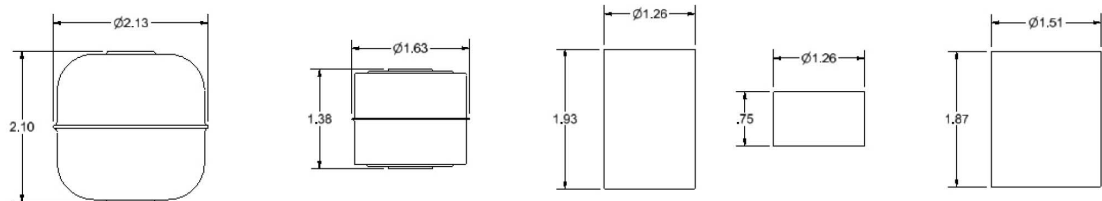
C Series Specification Sheet

1/4" Resolution Continuous Float Level Sensors - Standard

Standard Mounting Fitting Details:



Float Details:



FLOAT / SPECIFIC GRAVITY DETAILS					
RESOLUTION	STAINLESS STEEL	STAINLESS STEEL, 1.63" OD	BUNA	BUNA, 0.75" HIGH	POLYPROPYLENE
1/4" RESOLUTION	0.55	0.61	0.45	0.50	0.67

Additional Information or Custom requests:

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SINCE/DEPUIS 1953

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