
DRY WELL

FLOAT SWITCH



MODEL FS 202

FEATURES

- Enhanced Chemical Resistance:
 - w/PVC Junction Box & Down Tube &
 - Std Float/Stem: Buna-N / PBT
 - Custom Float/Stem: Polypropylene
- Selectable, N.O. or N.C. by inverting float on unit stem
- Reed switch for reliable extended service
- Large float displacement for lower specific gravity liquids

APPLICATIONS

- Ideally suited for dry pit of sewage pumping stations
- Point level measurement of clear liquids
- Chemical Tank point-level-sensing when using the Polypropylene Float & Stem

CONTEGRA's FS 202 dry well float switch provides reliable service as a sentinel in the equipment chamber of a sewage pumping station to alarm on sensing a flood. The switch may also be used in process sumps or water reservoir for point-level measurement of clear liquids (which will not foul the sliding switch).

The FS 202 switch has a hermetically sealed reed switch located inside the stem. The switch is actuated by a magnet located in the float. As the float rises and falls, the

magnetic field passing the switch (in the stem) causes the switch to actuate.

The switch operates in either the "normally open" or "normally closed" mode. Selecting the mode is as easy as removing the retaining clip and reversing the float on the stem.

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Contact ratings (60 VA):

(Reference application note)

Height: See diagram

Width: 2-7/8 inches

Depth: 2-1/4 inches

+32° (non-freezing) to
+ 115° F [nominally
0° to +46° C]

- PVC, Buna N and PBT, or
- PVC and Polypropylene

The switch may be changed from N.O. to N.C. operation by removing the retaining clip at the base of the switch, inverting the float, and replacing the clip.

Closes with 3/8" rise, opens with 1/16" lowering.

Opens with 1/4" rise, closes with 1/16" lowering.

Example: Polypropylene
Float and Stem

The direction of the mounting tabs (i.e. Up & Down or Left & Right) varies based on product availability.

Technical drawing of the FS202-T extension, showing top and side views with dimensions.

Top View Dimensions:

- Overall width: 4"
- Overall height: 5-3/4"
- Internal width: 2 7/8"
- Internal height: 4 1/2"
- Extension height: ~1.5" taller ->

Side View Dimensions:

- Overall height: 26-1/2" (nominal)
- Stem dimension: 1 3/8"
- Space for mounting tabs: Indicated by a dashed line and label.
- Switch actuation: 2"
- Switch actuation: 3/8"

Notes:

- Use the dimensions shown herein to allocate approximate space.
- Use the FS 202 to mark mounting holes.
- Item-to-item dimensional variations should be expected.

A dry well float switch shall be furnished to automatically detect a _____ (high / low) liquid level in the _____. The switch shall be normally _____ (open / closed) and _____ (close / open) on a rising liquid level. The float switch and piping shall be submersible. The junction box shall be Nema 4X. All construction shall be of PVC, PBT and Buna N for corrosion resistance. The dry well switch shall be a Contegra Model FS 202 and shall be installed in accordance with project plans and manufacturer's instructions.

Reed switches are typically rated for millions of operation. The Model FS 202 is designed for reliable long-term operation in low potential, low current applications. To maintain the switch's longevity a low-current interposing relay must be used when switching ahigh-current inductive load. Note: Diode Bypass all inductive DC Circuits.

◀ A 1/2" 'slip' hub is standard. An optional 1/2" 'threaded' hub is available, adding 1-1/2" to the overall height as shown at the top of the drawing.

Model	Description	"Stem" Dimension
FS 202-S	Sensor w/ 1/2" Slip Fitting	20-3/4" nom.
FS 202-T	Sensor w/ 1/2" Threaded Fitting	20-3/4" nom.
FS 202-X	Sensor, Custom (Write the customer's specification in the descriptive area.) (e.g. Float [PP], 'Stem' Dimension, etc. [Consult Representative/Factory])	Customer Specified Minimum Length.

Product enhancements and refinements may be integrated without prior notification.

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