Franklin Electric
FUELING SYSTEMS

FLEXIBLE PROBES

Whether you are working in a tight, low-overhead space or have a high aboveground storage tank, our flexible probes are designed to accommodate your tanks. These probes, like our standard rigid probes, provide reliable and accurate inventory management for otherwise difficult installation applications. Available in lengths for tanks ranging from 4' to 68' (1,219 mm - 20,726 mm). Flexible probes provide an ideal solution for tall spaces, tight spaces, aboveground, and indoor applications.

HIGHLIGHTS

- Available in lengths for tanks ranging from 4' to 68' (1,219 mm - 20,726 mm).
- All probe components are packaged within a ⅝" flexible probe shaft, eliminating a bulky probe head. The compact design provides a better environmental seal and offers flexibility in mounting the probe.
- Each probe comes with a stainless steel weight and weight pin to keep the flexible probe aligned vertically in the storage tank.
- A 16" (406 mm) installation sleeve with adjustable compression fitting (sold separately) allows for variable height adjustment during installation and ensures accurate placement of the probe within the tank.
- Flexible probe float kits (sold separately) come with product float, water float, and a spacer which ensures accurate readings for these longer length probes.

SPECIFICATIONS

Input Voltage	16 to 31 VDC
Resolution	0.010" (0.254 mm)
Linearity	+/- 0.01% of full scale, +/- 0.010 inch (.254 mm), whichever is greater
Repeatability	+/- 0.001% of full scale, +/- 0.00025 inch (0.0064 mm), whichever is greater
Temperature Accuracy	Absolute +/- 2°F (+/- 1.11°C)
Temperature Measurement Resolution	+/- 0.01° F (0.02° C)
Temperature Sensing Range	-40° F to 150° F (-40° C to 66° C)
Operating Temperature Range	-40° F to 158° F (-40° C to 70° C)
Maximum Tank Capacity	5,875,000 gal (22,200,000 liters)
Total Float Capability	Two floats
Environment	NEMA 4
Probe Material	PVDF (polyvinylidene flouride)
Weight and Weight Pin Material	Stainless steel
Cable	Includes 2' (610 mm) cable (for additional cable, order P/N 88761 for 500' (305 m) or P/N 88760 for 1,000' (305 m)
Compatibility	Compatible with EVO™ 200, EVO™ 400, EVO™ 550, EVO™ 5000, EVO™ 600, and EVO™ 6000 with software version 2.6.2.8040 or later

Note: Use appropriate flexible probe installation kit for installing flexible probes. Use appropriate flexible probe float kits only.

SPECIFICATIONS CONTINUED

Capabilities

- Flexible probes will report the level of two floats.
- Flexible probes are capable of inventory monitoring.

Approvals/Certifications

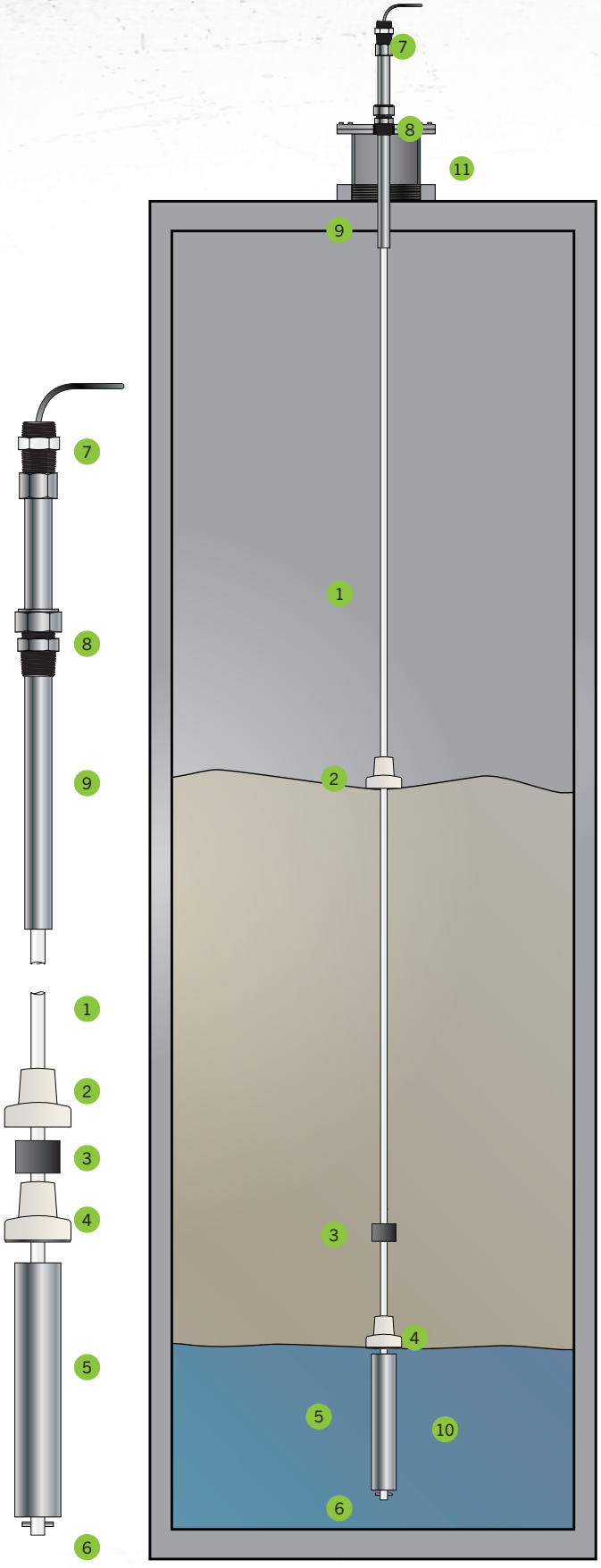
- UL, cUL, ATEX, IECEx

Components

1. Flexible probe shaft
2. Product float
3. Spacer (included on probe length models 23' and greater)
4. Water float
5. Weight
6. Weight pin
7. Probe head, ¾" NPT
8. Adjustable compression fitting, 1" NPT
9. 16" (610 mm) installation sleeve, ¾" NPT (optional)
10. Dead Band Space (between 6.35" and 19.35")
11. Null Zone (no detection for top 12" to 16")

Operation

When a flexible probe takes a measurement an electromagnetic pulse is created inside the probe and travels down a long waveguide within the probe shaft. When the pulse encounters the magnetic field of one of the floats a portion of the pulse is reflected back to the probe head. When the reflected pulse is detected at the probe head the data is sent to the automatic tank gauge and a precise product level is displayed. A temperature sensor located on the probe shaft allows the automatic tank gauge to compensate for temperature related expansion or contraction of the product.



Note: A vertical tank is depicted, however, flexible probes can also be used in a horizontal tank application.

ORDERING INFORMATION

Contact your sales representative or Franklin Electric Customer Service (1.866.887.9904) for custom ordering.

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FLEXIBLE PROBES

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FUEL MANAGEMENT SYSTEMS

Whether you are working on a high aboveground storage tank or in a confined indoor application, a standard rigid inventory probe isn't always the most suitable for the job. Our flexible probes provide you with the flexibility to easily handle these types of installations without sacrificing reliability and accuracy in inventory management for otherwise difficult to install applications.

ABOVEGROUND STORAGE TANKS

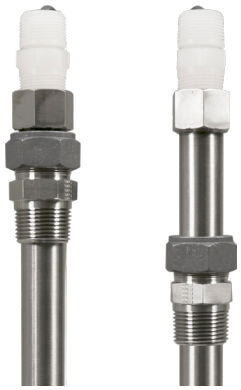
Flexible probes are ideal for aboveground storage tank applications where probes are installed at higher levels.

- The flexibility of the probe allows the installer to take the entire probe to the top of the tank, uncoil it, and then install it.
- A long rigid probe can be difficult and dangerous to position and install at large heights.
- Transporting a longer rigid probe takes up significantly more space than a flexible probe.

LOW OVERHEARD CLEARANCE

Flexible probes make installing in spaces with little overhead clearance, like indoor generator tank applications, easy to carry out.

- Fitting a rigid probe down into a tank indoors can be next to impossible, unlike flexible probes that can be installed with minimal space required.
- A flexible probe can be uncoiled and fed directly into the tank within a small amount of space.
- The included probe weight fits at the bottom of the probe and helps to guide it into place.



ACCURATE INSTALLATION

The flexible probe installation kit includes several design features which ensure accurate installation for proper performance.

- A 16" stainless steel sleeve guides the probe into place and ensures proper vertical alignment.
- The adjustable compression fitting allows for variable height adjustment, giving you the ability to set the probe depth with precision.
- The guides and fitting make sure that the probe is installed correctly, thereby ensuring accurate and consistent level readings.

ACCURATE LEVEL MONITORING

The water and product level float kits are designed specifically to provide accurate inventory levels on flexible probes.

- Float kits are available in 2", 3" and 4" diameters.
- Both diesel and gasoline float kits are available.
- With longer probes, inaccuracies can develop due to the larger span of the probe shaft. To avoid this, each flexible probe float kit comes with a spacer designed to ensure that accurate level readings are relayed over longer probe shaft distances.

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