

# PRINCETON PROBES - SKYSPORT PROBES

## PRINCETON CAPACITIVE FUEL PROBES



Intended for Experimental Aircraft - This is not a certified unit

- **Easy Push Button Calibration** - Simple push buttons make calibration easy and accurate. No sensitive screw adjustments to make. Place the probe in tank, connect power and press EMPTY. Fill tank and press FULL. Calibration is complete.
- **Steady Readings** - Digital filtering minimizes the effects of fuel slosh providing greater accuracy.
- **Proven Design** - Designed specifically for the aircraft that are subject to harsh environments, such as vibration, temperature, and electrical noise. Probes designed for industrial applications can fail under these conditions. Proven reliability with over 10 years of history.
- **SAE 5 Hole Bolt Pattern** - Industry standard flange mount compatible.
- **Unique Press fit installation option** - Simply drill a 1/2" hole and use a rubber bushing to seal and hold the probe in place.

- **No Moving Parts** - Nothing to wear out.
- **Output** - 0 to 5 Volts
- **Compatible Fuel Quantity Gauges** - UMA P/N: 18-260-1C1 (P/N 10-02410) Westach P/N: 20A4V (P/N 10-01255) & 2A7V (P/N 10-01246) and other 0-5V gauges. Mounting Options:
- **Unique Pressfit Installation** - Can be mounted in plastic tank by drilling a 1/2" hole. A rubber grommet is used to hold the probe in place.
- **Standard SAE 5-Hole Bolt Pattern** - A backing plate and seal are used to secure the probe to the tank. Standard Lengths of 12, 18, & 24 inches. Flange mount with standard SAE 5-hole pattern, or rubber grommet press fit. Probes may be shortened up to 1/2 of their measurable length. 0, 3, or 5 inch bendable section. 2 or 5 set points.
- **Ordering: (LL-BB-SS-MM)**  
 LL - Length (12, 18, 24 inches or 25 to 48 inches custom)  
 BB - Bendable Section (NB= non-bendable, 3B= 3 inch, 5B= 5 inch)  
 SS - Set points (1S= Empty, 2S= Empty/Full or 5S = Empty, 1/4, 1/2, 3/4, Full)  
 MM - Mounting method (PF= Press Fit Bushing, FM= Flange Mount Gasket)
- **Example:** A 12", non-bendable, 2 set point probe using a press fit mounting part number would be 12-NB-2S-PF.

| Description   | Part No. | Price           |
|---|----------|-----------------|
| Standard, 1 Or 2 Set Point, PF or FM Mounting       | 10-00257 | <b>\$89.00</b>  |
| Standard, 5 Set Point, PF or Fm Mounting            | 10-00258 | <b>\$139.95</b> |
| Standard Sae 5-hole Flange Mounting Kit             | 10-00259 | <b>\$22.75</b>  |
| Advanced NPT Model, 1, 2, or 5 Set Point, NPT Mount | 10-00256 | <b>\$189.95</b> |
| NPT Electronics module                              | 10-05465 | <b>\$89.95</b>  |
| 1 Set Point Fuel Level Probe                        | 10-05775 | <b>\$89.00</b>  |

| Description                     | Part No. | Price           |
|---------------------------------|----------|-----------------|
| 2 Set Point Fuel Level Probe    | 11-09544 | <b>\$89.95</b>  |
| 5 Set Point Fuel Level Probe    | 11-11848 | <b>\$135.99</b> |
| Accessories                     |          | Part No. Price  |
| Wire For Capacitance Fuel Probe | 11-03996 | <b>\$2.49</b>   |
| Fuel Tank Bushing               | 05-01039 | <b>\$0.32</b>   |
| ISS Fuel Sender Gasket          | 10-01097 | <b>\$2.15</b>   |

## SKYSPORTS CAPACITIVE FUEL SYSTEMS



The Skysports fuel monitoring system is a capacitance system which has no float and no moving parts except the needle on the gauge. Used in hundreds of various ultralight, homebuilt, and military aircraft, these fuel systems have been very popular due to their accuracy and durability. The Skysports fuel probe electronically measures the level of fuel in the tank, and sends the signal through the wire harness to the gauge. Available for single or dual tank use and for 12 or 24 volt operation. The system includes the gauge, probe, 8 ft. wire harness, mounting hardware, & instructions.

The SkySports 240-330ohm fuel systems are no longer available. They have been replaced with a new 0-5V system. These new systems, (listed below) can be used on both 12 or 24 volt aircraft. The older 240-330ohm gauge and probes are not interchangeable with the new 0-5V gauge or probes. However the installation of the systems are the same.

Note: The Skysports 240-330ohm older style probes are only available as special order upon request.

### ROUND GAUGE SYSTEMS

| Description                         | Part No. | Price           |
|-------------------------------------|----------|-----------------|
| 2" Round 6" Straight Probe          | 10-04509 | <b>\$276.16</b> |
| 2" Round 12" Straight Probe         | 10-04495 | <b>\$262.06</b> |
| 2" Round 24" Straight Probe         | 10-04496 | <b>\$270.16</b> |
| 2" Round 12" with 3" Bendable Probe | 10-04497 | <b>\$265.96</b> |
| 2" Round 24" with 3" Bendable Probe | 10-04498 | <b>\$285.96</b> |
| 2" Round 12" with 5" Bendable Probe | 10-04499 | <b>\$265.96</b> |
| 2" Round 24" with 5" Bendable Probe | 10-04501 | <b>\$260.96</b> |

### SQUARE GAUGE SYSTEMS

| Description                              | Part No. | Price           |
|--|----------|-----------------|
| 2-1/4" Square 6" Straight Probe          | 10-04511 | <b>\$289.16</b> |
| 2-1/4" Square 12" Straight Probe         | 10-04502 | <b>\$275.06</b> |
| 2-1/4" Square 24" Straight Probe         | 10-04503 | <b>\$283.16</b> |
| 2-1/4" Square 12" with 3" Bendable Probe | 10-04504 | <b>\$278.96</b> |
| 2-1/4" Square 24" with 3" Bendable Probe | 10-04505 | <b>\$298.96</b> |
| 2-1/4" Square 12" with 5" Bendable Probe | 10-04506 | <b>\$278.96</b> |
| 2-1/4" Square 24" with 5" Bendable Probe | 10-04507 | <b>\$273.96</b> |

### INDIVIDUAL COMPONENTS

| Description            | Part No. | Price           |
|------------------------|----------|-----------------|
| 2" Gauge Only          | 10-04119 | <b>\$76.95</b>  |
| 2-1/4" Gauge Only      | 10-01246 | <b>\$89.95</b>  |
| 12" Straight Probe     | 10-03758 | <b>\$149.85</b> |
| 6" Straight Probe      | 10-03753 | <b>\$163.95</b> |
| 24" Straight Probe     | 10-03773 | <b>\$157.95</b> |
| 12" with 3" bend probe | 10-03746 | <b>\$153.75</b> |
| 24" with 3" bend probe | 10-03774 | <b>\$173.75</b> |
| 12" with 5" bend probe | 10-03761 | <b>\$153.75</b> |
| 24" with 5" bend probe | 10-03776 | <b>\$148.75</b> |
| Installation Kit       | 10-03731 | <b>\$35.25</b>  |

## MGL CAPACITANCE FUEL LEVEL SENDERS



MGL Avionics Capacitance Probe is available in 12" or 24" long. The senders can be bent above the black mark on the probe (first several inches only), and they can be cut to length.

12 inch Sender..... P/N 11-14306..... **\$142.75**  
 24 inch Sender..... P/N 11-14307..... **\$130.00**