

# Aquarian Vertical Probe Column

The Aquarian Vertical Probe Column is designed to be used in conjunction with the Fossil 1000Plus, 3000Mini, Single Probe Alarm Module, and other conductivity probe type electronics. The system is designed for boiler steam drum water level measurement based on water conductivity. The function is identical to other Fossil Conductivity Probe level detection systems. The level probe and electronics senses the difference in conductivity between water and steam. The primary difference being this probe is inserted in the top of the probe column.

The probe column is connected to the steam drum with the side mounted pipe connections. The water level in the probe column will match the water level in the steam drum. The water level detection probes are inserted at the top of the probe column. Each probe has a stainless steel rod of a specific length to detect specific water levels in the steam drum. The signal from the probes is sent to the electronics for local and remote indication, alarm and trip.

The advantage of a vertical probe column compared with the horizontal probe column is that the probes are removed from the boiler water and placed in the upper steam space. Only the stainless steel extension rod contacts the steam drum water. This arrangement prevents probe fouling due to impurities in the steam drum water, especially prevalent in low pressure boilers.



Controlling  
the **power**  
of **steam**

## **Features & Benefits:**

- ✓ Passive non-moving sensor. No moving parts to fail
- ✓ Up to 5 independent level indications.
- ✓ Effective replacement for float type level switches
- ✓ Can be used with any new or existing Fossil electronics. Also compatible with other electronic sensors.
- ✓ Utilizes proven Fossil brazed probe technology. Over 25 years of service history and tens of thousands installed.
- ✓ Water level is detected by stainless steel rod connected to probe tip. Probe insulator remains clean in top of column steam space.
- ✓ Proprietary leak proof threaded probe (2 yr Warranty)



**Aquarian Probe**

## **Column Design:**

Material - SA-106 Grade B Pipe  
Maximum Pressure – 1000 PSI. (69 Bar)  
Maximum Temperature – 700°F (371°C)  
Drum Connections – ¾", 1", or 1 ½" Pipe.  
Drain Connections – ½", ¾", or 1" Pipe.  
Option – Column mounted junction box, simplifies field wiring.

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