

# UNDER WATER ION CHAMBER PROBES

## Model # DMU-1 Model #DMU-1000

**DESCRIPTION:** The **DMU-1** and **DMU-1000**, Underwater Ion Chamber Probes, are for use with Technical Associates **CP-MU**, **CP-MU-1000**, and **CP-MU-7** meters. Detector Systems come with 60 feet of special low noise cable with a waterproof coupling to a 8" long 1/2" diameter aluminum tube containing an ion chamber (model DMU-1) or 7 1/2" long by 5 3/4" diameter aluminum chamber (Model **DMU-1000**). A "handle" consisting of 8 foot sections of free draining 5/8" stainless steel tubing is available as an **Option**. Up to 16 feet may be used with **DMU-1** in any position. Twenty-four feet or over may be used vertically downward with **DMU-1** or **DMU-1000** chamber.

**APPLICATION:** Because of the extremely high range capability and waterproof construction of the ion chamber detection system, underwater monitoring (and hot cell monitoring) of Reactor Spent Fuel Elements, Reactor Components and dose-rate measurements of irradiated objects can now be made easily and at the ranges called for at moderate cost.

### ION CHAMBER PROBES:

#### •DMU-1:

High Range Underwater Ion Chamber Probe  
Dimensions: 1" long x 1/4" diameter aluminum.

<b>Used With:</b>	<b>CP-MU / CP-MU-1000</b>	<b>CP-MU-7Range:</b>
	•0 to 1 KR/hr	0 to 10 <sup>4</sup> R/hr
	•0 to 10 KR/hr	0 to 10 <sup>5</sup> R/hr
	•0 to 10 <sup>5</sup> R/hr	0 to 10 <sup>6</sup> R/hr
	•0 to 10 <sup>6</sup> R/hr	0 to 10 <sup>7</sup> R/hr

(Figure 1).



#### •DMU-1000:

Mid Range Underwater Ion Chamber Probe  
Dimensions: 7 1/2" tall x 5 3/4" diameter anodized aluminum.

<b>Used With:</b>	<b>CP-MU / CP-MU-1000</b>	<b>CP-MU-7Range</b>
	•0 to 1 R/hr	0 to 10 R/hr
	•0 to 10 R/hr	0 to 100 R/hr
	•0 to 100 R/hr	0 to 1 KR/hr
	•0 to 1 KR/hr	0 to 10 KR/hr

(Figure 2).



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