



## Features:

- ▶ Waterproof
- ► Fully guarded
- ▶ Redesigned for long term stability
- ► Characterized for TG-51

## **Specifications**

$N_{gas}/(N_x A_{lon})$ (cGy/R): 0.849	
K <sub>ecal</sub> : 0.897	
Volume: o.6 cc (nominal)	
Sensitivity: o.2 nC/cGy (nominal)	
Wall material: acrylic (PMMA) + graphite C)	
Wall thickness: 0.425 mm, (0.335 mm PMMA, 0.09 mm C)	
Wall density: 56 mg/cm <sup>2</sup>	
Sensitive volume: 6.1 mm diameter, 23.6 mm long	
Electrode: aluminum, 1.1 mm diameter, 21.2 mm long	
Thimble O.D.: 6.95 mm	
Leakage: ± 4 x 10 - 15 A	
Bias voltage: 500 V maximum	
Rate limit for 99.5% ion collection efficiency:	
300 V; 280 R/s, 500 V; 780 R/s	
Rate limit for 99.5% ion collection efficiency, pulsed:	
100 V; 34 mR/pulse, 400 V; 57 mR/pulse	
Buildup cap: acrylic, 4.55 mm wall, 16.4 mm o.d.	
Cap machine thread: M 11 x 1	
Cable: low-noise triaxial, 1 m	
Connector: triaxial BNC with cap and chain (TNC optional)	

## **Accessories**

3BM-F10	10 m extension cable, triax BNC, male/female
	with caps and chains (also available in
	custom lengths and/or mounted in a reel)
3BF-3TMF	Triaxial BNC to TNC adapter



## **Model N30013**Waterproof PTW Farmer® Ionization Chamber

The Model N30013 (formerly N30006) is an ionization chamber of the classic Farmer design, intended for absolute dosimetry, but featuring waterproof construction. Similarities to the PTW N30010 include a sensitive volume of 0.6 cc, guarding up to the measuring volume, atmospheric communication and a thimble with internal 0.09 mm thick graphite layer protected by a 0.335 mm acrylic exterior wall. This thimble material combination makes the N30013 essentially air-equivalent with all the ruggedness of an acrylic thimble.

As with all PTW Farmer® ionization chambers, the N30013 conforms to external physical dimensions and meets or exceeds performance standards of the original Farmer design. It features a low-noise triaxial cable with radiation-resistant insulation. Each chamber is supplied with an integral 1 meter cable, male triax BNC connector with dust cap and chain, an acrylic 60Co buildup cap, a foam-lined case and QA checkout at CNMC.

