

## **RADIATION PHYSICS** | Thimble Ionization Chambers



#### **Features:**

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

### **Specifications**

. 0.849
. 0.897
. o.6 cc (nominal)
. o.2 nC/cGy (nominal)
. acrylic (PMMA) + graphite C)
. 0.425 mm, (0.335 mm PMMA, 0.09 mm C)
. 56 mg/cm <sup>2</sup>
. 6.1 mm diameter, 23.6 mm long
. aluminum, 1.1 mm diameter, 21.2 mm long
. 6.95 mm
. ± 4 x 10 - 15 A
. 500 V maximum
collection efficiency:
. 300 V; 280 R/s, 500 V; 780 R/s
collection efficiency, pulsed:
. 100 V; 34 mR/pulse, 400 V; 57 mR/pulse
. acrylic, 4.55 mm wall, 16.4 mm o.d.
. M 11 X 1
. low-noise triaxial, 1 m
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<sup>®</sup> 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<sup>®</sup> 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 radiationresistant insulation. Each chamber is supplied with an integral 1 meter cable, male triax BNC connector with dust cap and chain, an acrylic <sup>60</sup>Co buildup cap, a foam-lined case and QA checkout at CNMC.



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