

FLUKE®

Biomedical

Nuclear Associates 18-203

Mammography Phototimer Consistency Test Tool

Users Manual

May 2005

Manual No. 18-203-1 Rev. 2

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**Fluke Biomedical
Radiation Management Services**

6045 Cochran Road
Cleveland, Ohio 44139
440.498.2564

www.flukebiomedical.com/rms

Section 1

Introduction

1.1 Product Description

The mammographic unit's automatic exposure control should be capable of maintaining optical density within ± 0.15 OD as the voltage is varied from 25 to 35 kVp, and as breast thickness is varied from 2 to 8 cm for each technique. Test images taken of uniform phantoms of varying thicknesses should not differ by more than 0.30 OD from each other. These tests should be carried out over the kVp range customarily used by the mammography center.

The Phototimer Consistency Test Tool is available in two materials: acrylic; and, for more accurate results, breast-tissue-equivalent BR-12 material. Both are supplied in uniform 2.0 cm slabs to produce thicknesses of 2, 4, 6, and 8 cm.

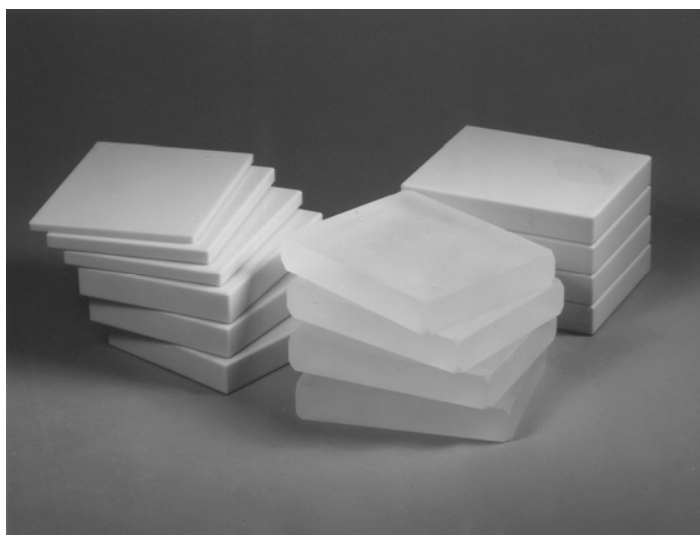


Figure 1-1. Model 18-203

1.2 Specifications

Material	Set of four acrylic slabs
Dimension	10 x 12.5 x 2 cm thick
Weight	3 lb (1.34 kg)

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