

SPP2 NF

Portable Prospecting Scintillometer

- Very high sensitivity
 - Fast response time (usable on vehicles)
 - Frequency modulated audible signal for source localisation
- Precision instrument adapted even for untrained staff
- Very sturdy. Usable in harsh environment like mines
- More than 3,000 instruments used around the world



The SPP2 NF is a γ and X Portable Prospecting Scintillometer specially designed for on-field use in extremely harsh environment. The SPP2 NF is intended to detect radioactivity and gamma -X radiation whose energy exceeds 30 keV.

The instrument is gun type handled and connected by cable to an electronic box which can be clipped to a belt for carrying. The box includes all the electronics, power supply and audible alarm.

The SPP2 NF is a precision instrument for tracking radioactive sources and materials. It can be used under harsh conditions. For these reasons, it is used by a large variety of operating teams, from Emergency Fire Response to Uranium Prospection.

**Extract from the UNEP report: “ UNEP Mission to Lebanon – October 2006”
Equipment used in the field**

The choice of instruments used in the environmental assessment in Lebanon was driven by UNEP’s in-depth experience of such equipment in past DU missions in the Balkans and the joint IAEA/UNEP mission to Kuwait. Thanks to their high sensitivity, effective sound alarm, durability, and robustness, these instruments have proven ideal for such missions.

The Saphymo-SRAT S.P.P.2 NF scintillometer is manufactured by Saphymo-PHY (Massy, France). It is designed for uranium exploration in rugged conditions. The detector is a 1 x 1.5 inch (15.2 cm³) NaI(Tl) (sodium iodide activated with thallium) scintillation crystal. The operation range for gamma radiation is 0.02 to 30 microsieverts per hour (μ Sv/h). The instrument has a built-in audible alarm that gives a high signal. The threshold and the frequency of the sound alarm can be varied according to the strength of the radiation. The time constant for the sound alarm is 0.25 seconds. The SRAT’s unit of measurement is cps (counts per second). It is 32 x 13 x 12 cm in size and weighs 3.6 kg. From UNEP’s point of view, it is one of the world’s most effective instruments for reconnaissance.

PHYSICAL CHARACTERISTICS

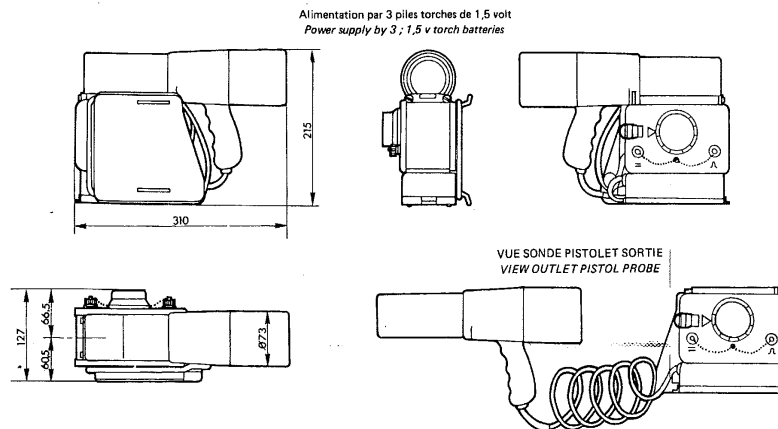
- **Detector:** NaI(Tl) scintillator - Ø 1.5" - height. 1"
- **Energy threshold:** 30 keV
- **Counting range:** 0-150 quick mode, 0-150 slow mode, 0-500, 0-1500, 0-5000, 5-15000
- **Accuracy:** ± 10% to +20° C (± 5° C)
± 20% all over the temperature range
- **Autonomy:** 40 hours

ENVIRONMENTAL CHARACTERISTICS

- **Temperature range:** -25° C to +55° C
- **Water resistance:** no damage after 1h immersion

MECHANICAL CHARACTERISTICS

- **Dimensions:**
 - **Probe:** 283 x 62 x 76 mm
 - **Body:** 157 x 80 x 130 mm
- **Probe weight:** 1.6 kg (belt-clipped box)
- **Total weight:** 3.6 kg (with batteries)
- **External audio output and "continuous" output (0-50 mV on 1 k Ω) for recording**
- **Audible alarm with variable frequency provided by an internal speaker**

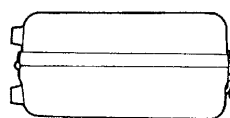
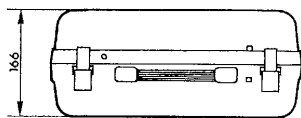


ELECTRICAL CHARACTERISTICS

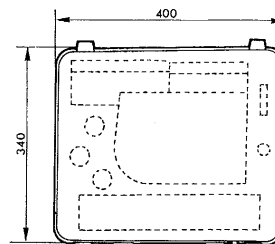
- **Power supplied by 3 LR20 1.5 V batteries**

ACCESSORIES AND RELATED PRODUCTS

- **Accessories:** 1 waist-belt, 1 cross-belt, 1 carrying case,



VALISE DE TRANSPORT
Poids = 6,8 kg
CARRYING CASE
Weight = 6,8 kg



BAUDRIER
CROSS-BELT
CEINTURON
WAIST-BELT

ACCESSORIES DIVERS
Casque
Echelle portable
Enregistreur

VARIOUS ACCESSORIES
Headset
Portable ladder
Recorder

SAPHYMO FRANCE - Headquarters

Parc d'activité du Pas du Lac
10 bis avenue Ampère
78180 Montigny-le-Bretonneux
Tél.: +33 (0)1 69 53 73 00

Contact: nuclearsales@saphymo.fr

SAPHYMO GmbH

Heerstrasse 149
D-60488 Frankfurt am Main
Tél.: +49 (0)69 976 514 0
Contact: sales@saphymo.de

SAPHYMO Italia

Vico Chiuso Paggi, 4/11
I-16128 Genova
Tél.: +39 (0)010 25 12 978
Contact: mail@saphymoitalia.com