



# GMP-15S™

## Snap-On Pancake Probe



The GMP-15S Snap-On Pancake Probe is a compact, cable-free solution for smart contamination monitoring and frisking of alpha, beta, and gamma radiation. Its pancake-style GM detector snaps directly onto RDS-32™ survey meters, enabling rapid, one-handed operation and providing simultaneous contamination and dose rate readings for enhanced situational awareness in the field.

The GMP-15S is a compact, smart frisker probe that snaps directly onto any RDS-32 survey meters enabling safe, systematic, one-handed contamination surveys without cables or setup delays.

Calibration factors are stored internally, allowing the GMP-15S to be interchanged between any RDS-32 meter without recalibration. This simplifies equipment management and enables flexible use across multiple applications. Isotope calibration for activity equivalent is available with the CSW-32™ Configuration Software.

Users receive simultaneous contamination and dose-rate readings, providing immediate situational awareness during surveys. This dual-display feature can also be disabled for simplified monitoring if needed.

### FEATURES

- ✓ **Instant, One-Handed Operation:** Snap-on design enables rapid, cable-free use—start surveys immediately.
- ✓ **Smart, Cable-Free Frisking:** Compact probe eliminates cable clutter for portable, ergonomic fieldwork.
- ✓ **Dual Readout Display with the RDS-32 meter:** Shows contamination and dose rate at once for quick, informed decisions.
- ✓ **True Plug and Play:** Switch between RDS-32 meters with no recalibration—maximizes flexibility and reduces Total Cost of Ownership.
- ✓ **Sensitive, Reliable Detection:** Detects low levels of alpha, beta, and gamma radiation for dependable monitoring.
- ✓ **Industry Standards Compliance:** Fully compatible with IEC 60325 and ANSI 42.17A for regulatory confidence.
- ✓ **Rugged Configuration:** Drop-proof from 1 m onto concrete with the RDS-32 meter.



Left: GMP-15S without meter  
Right: GMP-15S detector grid

# Specifications

## RADIOLOGICAL CHARACTERISTICS

- Radiation detected: gamma-, beta- and alpha-rays
- Display units: cps, cpm, dpm, Bq, Bq/cm<sup>2</sup>
- Energy range: Alpha >2.6 MeV, Beta >30 keV, Gamma >5 keV
- Detector type: GM pancake
- Protection grid transparency: 79%
- Pulse rate range: 1 - 50,000 cps (60 - 3000 kcpm)
- Activity equivalent range depends on calibration emitter. Conversion coefficient is factory set with <sup>60</sup>Co
- Mica window with active area: 15.5 cm<sup>2</sup> (6.1 in<sup>2</sup>); window thickness: 1.5 - 2 mg/cm<sup>2</sup>
- Gamma sensitivity: for Cs-137: 5.24 cps per  $\mu$ Sv/h (3140 cpm per mrem/h)
- Background: <0.6 cps (36 CPM) in <0.1  $\mu$ Sv/h (10  $\mu$ rem/h) ambience
- Dead time: G-M tube: <40  $\mu$ s, Probe: G-M dead time does not limit measurement capabilities as Mirion has implemented a time-to-count technique

## MECHANICAL CHARACTERISTICS

- Temperature range:
  - Operation: -25 °C to +55 °C (-13 °F to +131 °F)
  - Storage: -40 °C to +70 °C (-40 °F to +158 °F)
- Humidity: 10 - 95% relative humidity, non-condensing at 35 °C
- Casing durable ABS/polycarbonate
- Length 168 mm (6.6 in), with RDS-32 meter 172 mm (6.8 in), max width 83 mm (3.3 in), max height 80 mm (3.1 in)

- Weight 260 g (0.57 lb), with RDS-32 meter and batteries 470 g (1.04 lb)
- Drop-proof from 1 meter on concrete with RDS-32 meter attached

## ELECTRICAL

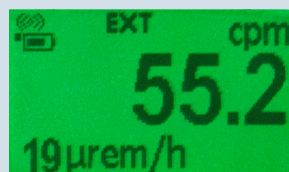
- Power and communication provided by the RDS-32 meter
- Consumption: 23 mA maximum
- Operation time with fresh Alkaline batteries more than 1.5 months 8 h use/24 h (>400 h in background radiation, radios off, display backlight off, LED off)
- Operation time with fully charged NiMH batteries more than 2 months 8 h use/24 h with 2900 mAh capacity (>500 h in background radiation, radios off, display backlight off, LED off)

## NORM

- CE: Meets CE requirements
- IEC: Type tested to IEC 60325-ed3-2002
- ANSI: Type tested to ANSI 42.17AC-2022 (Normal Environmental Use)
- Ingress protection: IP42

## ORDER GUIDE

- GMP-15S product ref. 1233-355
- CSW-32 Configuration Software product ref. 1233-331



### RDS-32 Dual Readout Display:

- ✓ Large graphic screen with backlight
- ✓ Contamination and dose rate readings at once

Detection efficiencies and MDAs with 100 cm<sup>2</sup> ISO 8769 sources in contact with probe using STUK sources:

| Nuclide                           | Emitter                | Typical efficiency over 2 $\pi$ (%) | Guaranteed efficiency over 2 $\pi$ (%) | Response to activity (c/s)/Bq | MDA (Bq) |
|-----------------------------------|------------------------|-------------------------------------|----------------------------------------|-------------------------------|----------|
| <sup>90</sup> Sr+ <sup>90</sup> Y | $\beta$                | 51.6                                | 46.4                                   | 0.33                          | 3.5      |
| <sup>36</sup> Cl                  | $\beta$                | 47.0                                | 42.3                                   | 0.30                          | 3.9      |
| <sup>14</sup> C                   | $\beta$                | 18.9                                | 17.0                                   | 0.06                          | 19.5     |
| <sup>60</sup> Co                  | $\beta$                | 34.4                                | 30.9                                   | 0.19                          | 6.1      |
| <sup>137</sup> Cs                 | $\beta$ /( $\gamma$ )  | 43.8                                | 39.4                                   | 0.28                          | 4.1      |
| <sup>241</sup> Am                 | $\alpha$ /( $\gamma$ ) | 38.0                                | 34.2                                   | 0.18                          | 6.3      |
| <sup>239</sup> Pu                 | $\alpha$               | 32.8                                | 29.5                                   | 0.16                          | 7.4      |

MDA: Background = 0.6 c/s measured during 100 s in a 0.1  $\mu$ Gy/h ambience.

Measuring time on source: 10 s.

Statistic: False alarm = 5% and non detection = 5%



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