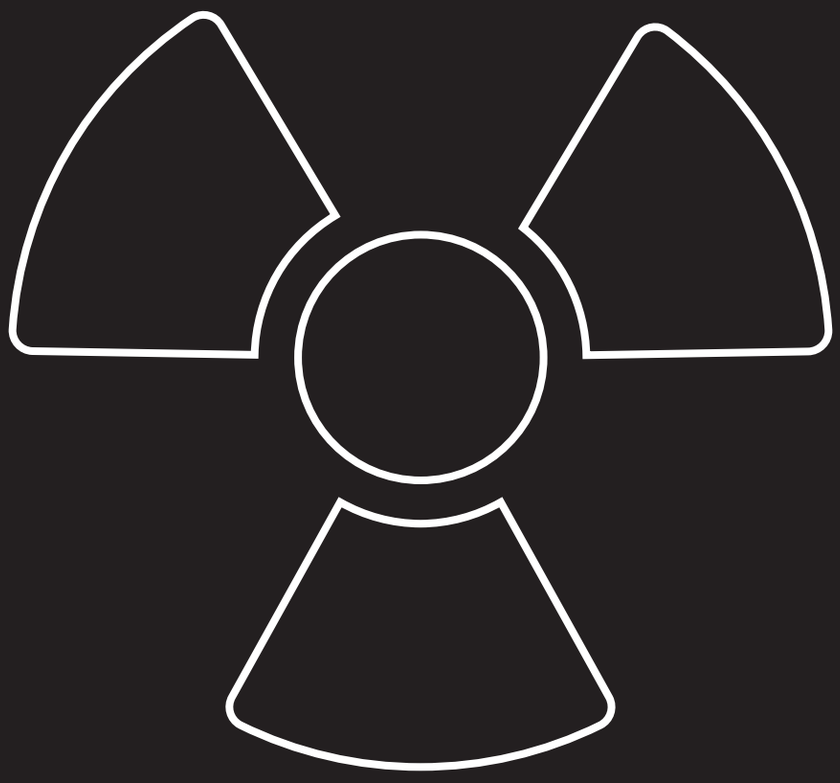
RADIATION SAFETY & MONITORING



ADM

LOCAL STOCK & SUPPORT

ADM HAS ESTABLISHED ITS REPUTATION AS A SUPPLIER OF HIGH-QUALITY RADIATION DETECTION AND MONITORING EQUIPMENT FOR OVER 30 YEARS. FROM OUR EARLY DAYS REPRESENTING COMPANIES LIKE MINI INSTRUMENTS AND ERBALINE (NOW BOTH PART OF THERMO FISHER SCIENTIFIC), ADM CONTINUES TO REPRESENT BRANDS WHICH PROVIDE QUALITY SAFETY SOLUTIONS FOR RADIATION MANAGEMENT.

ADM's primary objective is always customer service. This means prioritising meeting the needs and expectations of our customers above all else. To achieve this objective, ADM has worked closely with our suppliers for over three decades. Providing application-specific advice, and offering complete solutions are all part of our service offering. ADM holds stock locally, so that the item you want is readily available when you need it. This allows for quicker delivery times and the ability to respond to your needs more rapidly. Providing application-specific advice means that ADM offers expertise and guidance tailored to your specific needs and applications. This ensures that you receive the best advice possible and can make informed decisions.

QAS International
ISO 9001:2015
REGISTERED COMPANY
Certificate No. AU1569

CONTENTS

ABOUT US

ADM Nuclear Technologies has been a proud part of the ADM Systems Group since it was established in 1986. As an instrumentation engineering and industrial power solutions company, we continue the tradition of maintaining key partnerships with leading global suppliers of radiation detection, monitoring, and safety equipment. As well as offering local service and support for our products, we are proud to represent the following companies in Australia:

ThermoFisher SCIENTIFIC

The Thermo Fisher Scientific Range represents global leading radiation safety devices, with a strong emphasis on personal monitoring, first responders, and monitoring devices for industrial, mining, nuclear industries, and medical sectors. Product ranges like the RadEye, EDP TruDose, Harshaw TLD, and ASM Portal monitors are all globally established brands, which are trusted and used by hundreds of thousands of users daily.

SARAD®

Sarad GmbH is a German-based company specialising in the design, development, and manufacture of instruments for the monitoring of Radon (and progeny), radioactive aerosols (LLRD), and contamination monitoring. Sarad has developed a suite of products for personal monitoring (like poCAMon and DOSEman), as well as survey and contamination monitoring (the EQF, RTM, RPM, Radon Scout, and AER Area Monitors). In Australia, these products are trusted across the mining and processing sector, radiopharmaceuticals, and other industries where Rn/Th and radioactive aerosols are present.

HDI Hopewell Designs, Inc. Engineering, Manufacturing, & Service

Based in the USA, Hopewell designs irradiator systems for calibration, dosimetry, research and QA processes. With the ability to provide standard (off the shelf) systems, or bespoke designs – along with installation services, ADM is proud to have worked with Hopewell in providing calibration irradiator systems to leading Australian users over the years.

WAVECONTROL Safety, Quality, Service

Founded in 1997, and still based in Barcelona, Wavecontrol has been an innovator at the leading edge of Electromagnetic field (non-ionising radiation) monitoring equipment. From personal safety devices (WaveMon) to portable multi-band field meters (the SMP series), as well as fixed monitoring (MonitEM) – Wavecontrol covers all safety monitoring for EME.

DOSImetrics

Pioneering personal dosimetry utilising BeOSL Technology, Dosimetrics has developed industry leading technology systems for personal dosimetry for occupationally exposed workers.

ADM Nuclear Technologies is also very proud to work with other international manufacturers like Spectrum Techniques, Rotunda Scientific, and LND Inc. to provide radiation check sources, specialised active extremity dosimeters, replacement ion chamber/GM Tubes and the like.

OUR SERVICES INCLUDE:

- Expertise and consultancy across our product range
- Service, repair and calibration of radiation instrumentation
- Bespoke detector mounts (design and manufacture) and cable modification
- Assembly of radiation monitoring systems

RADIATION SURVEY AND CONTAMINATION METERS

Thermo Fisher Scientific manufactures a wide range of quality radiation monitors, detectors and survey meters. Its instrumentation is widely used in the nuclear industry, National Laboratories, national and international safeguards organisations, defence and law enforcement agencies.

ADM Nuclear Technologies is proud to be the Australian distributor of Thermo Fisher Scientific radiation detection and monitoring products. Below is a selection of some of the more commonly used devices from the RadEye Range.

Scan the QR code to see full details of the Radiation Meter range on our website.

RADEYE B20 - ALPHA, BETA, AND GAMMA CONTAMINATION / SURVEY METER

Trusted and Dependable, Flexible, Use everywhere

- Radiation Type: Alpha, Beta, and Gamma
- Detector: GM Tube
- Range: 0, 2 μSv/h - 2 mSv/h (100mSv/h ER version)
- Energy Range: 17 keV – 3 MeV
- Dose Rate Range: 0, 2 μSv/h - 2 mSv/h
- Count Range: 0-10kcps (standard), 0-500 kcps (ER version)
- Weight: 300g
- Dimensions: 13 cm x 7 cm x 6 cm
- Warranty: 12 months

LUTETIUM TEST ADAPTER

High precision, low energy test adapter for in-field performance verification at known low activity source.

A 9g natural Lutetium-Oxide (exempt) source, Lu-176 has a half-life of 37,000 million years. The test-adaptor provides extremely uniform activity content and surface emission rate, ensuring stable (low count) surface emission rate for each check source.

ACCESSORIES FOR THE RADEYE B20 / ER

Autodetected filters for alpha rejection, H7 and H7 dose estimation

Application	Contamination αβγ	Contamination βγ	Dose Rate H*(10)	Dose Rate H'07
Autodetection Filter	No Filter	Alpha Blocker 425068581	H*(10)Filter 425068582	H'07 Filter 425068583
				
Filter Code displayed at the LCD	No Code	(α Blocker)	(H*(10))	(H'07)
Display Units	cps, cpm, Bq/cm², Bq, dpm, dps	cps, cpm, Bq/cm², Bq, dpm, dps	Sv/h, rem/h	Sv/h, rem/h

RADEYE G-10: GAMMA DOSIMETER

Simple, Reliable, Robust

- Radiation Type: Gamma (including X-Ray)
- Detector: GM Tube
- Measurement range: 0.05 μSv/h – 50 mSv/h
- Energy Range: 50 keV - 1.3 MeV
- Warranty: 12 months

RADEYE G20-10 / G20-ER10: GAMMA / SURVEY METER

A B20 with integrated H10 Filter

- Radiation Type: X-Ray and Gamma
- Detector: GM Tube
- Measurement Range: 0.01 μSv/h – 2 mSv/h (G20-10ER: 0.01 μSv/h – 100 mSv/h)
- Energy Range: 17 keV to 3 MeV
- Warranty: 12 months

RADEYE SPRD[ER]: SPECTROSCOPIC RADIONUCLIDE IDENTIFIER

Detection and Identification

- Radiation Type: Gamma
- Detector: CsI(Tl) and patented scintillation detector for High Range
- Measurement Range: 10 nSv/h - 250 μSv/h
- Energy Range: 58keV - 6 MeV for dose measurement
- Dose Rate Range: 10 nSv/h - 250 μSv/h
- Dual detectors for high range dose (ER Version)
- Sourceless integrated gain stabilisation
- Neutron detection and verification using gamma analysis algorithm
- Warranty: 12 months

RADEYE PRD4 [ER]: PERSONAL DETECTOR AND DOSIMETER

Sensitive, Precise, Stable

- Radiation Type: Gamma
- Detector: CsI(Tl) and patented scintillation detector for High Range
- Energy Range: 58 keV – 6 MeV: for dose and dose rate measurement 20 keV – 6 MeV: for count rate (pager function)
- Dose Rate Range: Low range: 10 nSv/h - 250 μSv/h (1 μR/h - 25 mR/h) | High range: 250 μSv/h - 10 Sv/h (25 mR/h - 1000 R/h)
- Dual detectors for high range dose (ER Version)
- Sourceless integrated gain stabilisation
- Neutron detection and verification using gamma analysis algorithm
- Natural background rejection
- Warranty: 12 months

RADEYE AB-100: ALPHA AND BETA CONTAMINATION

- Radiation Type: Alpha and Beta
- Detector: Scintillation
- 0.87 mg/cm2 aluminised plastic film window with 6.9 x14.5 cm window
- Weight: 900g
- Dimensions: 35.5 cm x 10 cm x 18 cm
- Warranty: 12 months

RADEYE NL: HIGHLY SENSITIVE NEUTRON DETECTOR

- Radiation Type: Neutron
- Detector: He-3 tube at 2.5 bar
- Exceeds the neutron response requirements of ISO 22188.
- Gamma Spill Over: <0.2 cps at 10 mSv/H (Cs-1370
- Dimensions: 11 cm x 6.7 cm x 6.2 cm
- Optional Moderator for dose measurement
- Warranty: 12 months

RADEYE SPRD-GN: SPECTROSCOPIC IDENTIFICATION INCLUDING NEUTRON SOURCES

- Radiation Type: Gamma and Neutrons
- Measurement Range: 10 nSv/h - 250 μSv/h
- Energy Range: 60keV - 3 MeV
- Dose Rate Range: 10 nSv/h - 250 μSv/h
- Count Rate: 50 kcps
- Operating Temp: -20˚C to +50˚C
- IP Rating: IP65
- Weight: 160g
- Dimensions: 11 cm x 6.7 cm x 6.2 cm
- Warranty: 12 months

TEST-ADAPTER RADEYE PRD, 36 G LU203

- Lutetium Test Adapters are a smart alternative to conventional check sources
- Special shaped lutetium test adapter to match the RadEye PRD housing
- Used for performance optimisation and field confirmation of unit performance
- Indication of “low energy” NBR alarm

RADEYE ACCESSORIES

The RadEye range of accessories increases functionality and flexibility of the equipment.

- Management and data download software
- Desktop charger and holder
- Belt holster, clip and neck tie
- Adapters, brackets, covers and MHV cables
- Telescopic extension rods
- Laboratory, wipe test, and safety kits

COULD TRADITIONAL WATERING METHODS FOR LEMON TREES LEAVE THEM RADIOACTIVE?

There is a long-held belief that urinating on lemon trees is good for them. This could be true as human urine contains nitrogen and has a pH of 6. Nitrogen is an excellent fertiliser and pH6 means that the urine will slightly acidify the soil, both of which help to produce good lemons.

However, traditionalists should be warned. Urinating on your lemon trees after receiving radioiodine therapy may not be such a good idea. Radioiodine therapy is a nuclear medicine treatment for an overactive thyroid.

ADM Nuclear Technologies was recently asked to supply a Thermo Fisher Scientific RadEye PRD-ER radiation detector to a government authority. Apparently, they had been alerted that someone, who had recently received radioiodine therapy had been urinating in the garden. There was some concern that this would make the soil in the garden radioactive.

Although the soil around the lemon tree may be radioactive, it is understood that the urine would not make the tree or lemons radioactive.

The therapy involves the use of radioactive iodine, also known as iodine 131 (I-131). When undergoing treatment in hospital, measures are taken to protect visitors from being exposed to radiation from patients. Particularly when pregnant women or children are visiting. So, it is probably not a good idea to water the lemon trees using the traditional method shortly thereafter.

I-131 decays with a half-life of 8.02 days with beta and gamma emissions. The RadEye PRD4 was used in the above application because it features a scintillation detector with a high-quality micro photomultiplier. This is highly sensitive, and is around 10 times more sensitive than a Geiger Müller tube. It also has an extended range to 100 mSv/hr.

The RadEye PRD4 is a compact, handheld device, that is easy to carry, and has the ability to switch between dose measurements uSv/hr and contamination (counts per second), the contamination mode makes it really fast and quick to identify contamination, so it was the perfect choice for checking for any potential soil contamination in the garden.

THERMO FISHER SCIENTIFIC CONTROL UNITS FOR HANDHELD AND FIXED PROBES

RADEYE SX: FOR CONTROL OF SCINTILLATION AND GM DETECTORS

- Radiation Type: External Alpha, Beta Scintillation and Gamma probes
- Operating Temp: -20˚C to +50˚C
- IP rating: IP65
- Features: Alarm and AAA battery-operated
- Weight: 160g
- Dimensions: 11 cm x 6.7 cm x 6.2 cm
- Warranty: 12 months

RADEYE GX: FOR CONTROL OF GM DETECTORS

- Radiation Type: External GM Sensor
- Operating Temp: -20˚C to +50˚C
- IP Rating: IP65
- Features: Alarm and AAA battery-operated
- Weight: 160g
- Dimensions: 11 cm x 6.7 cm x 6.2 cm
- Warranty: 12 months

RADEYE PX: FOR CONTROL OF PROPORTIONAL COUNTERS (NEUTRON)

- Radiation Type: Neutron (proportional counter)
- Measurement Range: 100 kcps
- Operating Temp: -20 to +50C
- Features: Alarm and AAA battery-operated
- Weight: 200g
- Dimensions: 11 cm x 6.7 cm x 6.2 cm
- Warranty: 12 months

PROBE: SPA-3

- Radiation Type: Gamma
- Detector: Scintillation
- Energy Range: ~60 keV to 2 MeV
- Operating Temp: -30°C to +60°C
- Weight: 1.5 kg
- Diameter: 6.7 cm
- Length: 11.13 ft
- Warranty: 12 months

PROBE: DP6

- Radiation Type: Alpha and Beta
- Connector Types: MHV
- Available in standard and ruggedised version
- Weight: 500g
- Window Size: 100 cm2
- Background Measurement: s-1: <10; cpm: <600
- Efficiency: Alpha: 33% 241 Am; Beta: 18% 60Co, 38% 36Cl, 41% 90Sr/90Y; Beta: 18% 60Co, 38% 36Cl, 41% 90Sr/90Y

PROBE: HP270

- Radiation Type: Beta and Gamma
- Detector: Energy Compensated GM
- Energy Range: 30keV to 6MeV
- Connector Types: MHV
- Sensitivity: 20cps per 10uSv/h for Cs-137
- Window Thickness: 30mg/cm2

PROBE: WENDI-2 - WIDE-ENERGY NEUTRON DETECTOR

- Certifications: ICRP 74 / FHT 6020 area monitor, FH 40 G survey meter
- Linearity: ±20% (Angular dependence: ±20% in all directions)
- Sensitivity: 0.84 cps/(μSv/h) Cf-252
- Gamma sensitivity: 1 to 5μSv/h at 100 mSv/h, 662keV
- Pressure: 500 to 1500 hPa
- Weight: 13.5kg
- Diameter: 32 cm
- Height: 23 cm

Scan the QR code to see full details of RadEye Survey Meters on our website.

RENTAL, SERVICE, REPAIRS AND CALIBRATION

ADM Nuclear Technologies offers full life cycle support on all the radiation detection devices purchased from us.

We can repair, calibrate and carry out routine servicing to a wide range of radiation equipment in terms of suitability, reliability, safety and return on investment. We have a highly trained team of Melbourne-based technicians and engineers who travel across the country to install large-scale radiation detection systems, and maintain fixed installations. Handheld devices are generally serviced at our in-house workshop, which can also be sent to Europe for OEM repairs if required.

We can service and repair most brands of radiation detection equipment, so even if you purchased your device elsewhere, we can still assess it, and see if we can get it operational again.

If you have a short-term requirement for any radiation measurement device, ADM Nuclear Technologies can also offer you either a demo or rental equipment, which can help significantly reduce expenses from buying and maintaining your own equipment.

Call ADM Nuclear Technologies at 1300 236 682 for enquiries.

ACTIVE PERSONAL DOSIMETRY

THERMO FISHER SCIENTIFIC EPD TRUDOSE

The EPD TruDose is the third generation of EPD offered by Thermo – replacing the ubiquitous EPD Mk2+. The range covers gamma, beta/gamma, and gamma/neutron, including options for the detection of pulse-X-Ray. The TruDose range is compact, lightweight, and an all-in-one solution for active monitoring of personal dose exposure. The devices are easy to use, and offer state of the art safety solutions for exposed workers.

The EPD TruDose range is supported by Management Software (Easy EPD3), and unit data can be downloaded via desktop readers (sold separately).

For large users, we can offer device sign in and out software (RadSight), as well as real time unit dose management via telemetry systems.

Scan the QR code to see full details of the EPD TruDose range on our website.

Beta/Gamma Dosimeter	Gamma Dosimeter	EPD TruDose Gamma / Neutron	EPD TruDose Medical and Industrial Pulse
• Radiation Type: Beta and Gamma • Measurement Range: <1.0 µSv to ≥ 10 Sv • Energy Range: 16keV to 1.5MeV • Operating Temp: -20˚C to +50˚C • IP Rating: IP65 and IP67 • Features: Alarm, optional telemetry, AA battery-operated • Weight: 106g • Dimensions: 8.6cm x 6.3cm x 2.1cm • Warranty: 12 months	• Radiation Type: Gamma only • Measurement Range: <1.0 µSv to ≥ 10 Sv • Energy Range: 16keV to 1.5MeV • Operating Temp: -20˚C to +50˚C • IP Rating: IP65 and IP67 • Features: Alarm, optional telemetry, AA battery-operated • Weight: 106g • Dimensions: 8.6cm x 6.3cm x 2.1cm • Warranty: 12 months	• Radiation Type: Gamma and Neutrons • Measurement Range: Neutron: 100µSv to 10Sv, Gamma: <1µSv to 10Sv • Energy Range: 16keV to 1.5MeV • Dose Rate Range: Neutron: 1µSv/h to 10Sv/h, Gamma: 0.05µSv/h to 2Sv/h • Operating Temp: -20°C to +50°C • IP Rating: IP67 • Features: Alarm, optional telemetry, battery-operated • Weight: 114g • Dimensions: 8.6 x 6.3 x 2.1 cm • Warranty: 12 months	• Radiation Type: Gamma (including pulse generated X-Ray) • Measurement Range: <1.0 µSv to ≥ 10 Sv • Energy Range: 16keV to 1.5MeV • Operating Temp: -20°C to +50°C • IP Rating: IP65 and IP67 • Weight: 106g • Dimensions: 8.6 cm x 6.3 cm x 2.1 cm • Warranty: 12 months

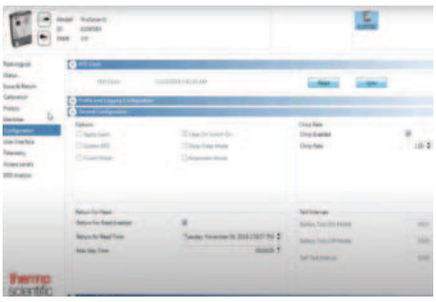
TRUDOSE DESKTOP READER / DOCKING STATION

Compatible with EPD TruDose and EPD Mk2 Series

IRDA READER AND OTHER ACCESSORIES

- Compatible with EPD TruDose Electronic Dosimeter and EPD Mk2 Series
- Available with or without Easy EPD Software
- Other accessories available: battery caps, dongle readers, etc.

EASY EPD2 AND EASY EPD3 SOFTWARE PACKAGES



- Automatic “discovery” and reading of a detected EPD
- Data logging to text file
- With data or graphic display of historical data

ED3: ROTUNDA SCIENTIFIC EXTREMITY DOSIMETER KIT

The ED3 Rotunda Scientific Dosimetry Kit is designed for highly accurate measurement of extremity dosimetry for process management and safety. The ED3 was developed to ensure the safety of workers particularly in radiopharmaceuticals, oncology, and in other applications when working with radionuclides. The ED3 provides real time monitoring of high-energy beta and gamma via detectors, which are positioned at extremities (including eye) – with one or two detectors per control unit, the ED3 can be a critical instrument for developing and ensuring safe work practices.

- Radiation Type: Beta and Gamma (Hp(0.07), and Hp(3)
- Measurement Range: 1.0 uSv to 999.9mSv
- Energy Range: 33KeV to 1.2MeV
- Dose Rate Range: 0.0 – 99.9mSv/h
- Operating Temp: -25 to 45°C
- Features: Alarm, AAA battery-operated
- Weight: 245g
- Dimensions: 9.9 cm x 6.0 cm x 3.5 cm
- Warranty: 12 months

THERMO FISHER SCIENTIFIC RIIDEYE AND RADHALO

Solutions for identifying gamma and neutron radiation sources – built for first responders.

The RIIDEye (ruggedised handheld devices) and RadHalo (portable and fixed area monitoring) are spectroscopic radionuclide detectors designed for applications across multiple sectors – where the ability to quickly identify and distinguish [potentially multiple] radionuclides is critical to the response.

RIIDEYE X-G

Extreme Conditions Portable Spectroscopic Radioisotope Identification Instrument

- Radiation Type: Gamma
- Detector: 2”x2” NaI Scintillator
- Energy Range: 20keV to 3MeV
- Operating Temp: -20˚C to +50˚C
- IP Rating: IP65
- Features: Alarm and AA battery-operated
- Weight: 2.6kg
- Dimensions: 28.4 cm x 21.3 cm x 13.4 cm
- Warranty: 12 months

RIIDEYE X-H

Extreme Conditions Portable Spectroscopic Radioisotope Identification using Lanthanum Bromide

- Radiation Type: Gamma
- Detector: 1.5”x1.5” LaBr
- Energy Range: 20keV to 3MeV
- Operating Temp: -20˚C to +50˚C
- IP Rating: IP65
- Features: Alarm and AA battery-operated
- Weight: 2.4kg
- Dimensions: 28.4 cm x 21.3 cm x 13.4 cm
- Warranty: 12 months

RIIDEYE X-HN

Extreme Conditions Portable Spectroscopic Radioisotope Identification using Lanthanum Bromide

- Radiation Type: Gamma and Neutron
- Detector: 2”x2” NaI Scintillator with CLYC Neutron Detector
- Energy Range: 20keV to 3MeV
- Operating Temp: -20˚C to +50˚C
- IP Rating: IP65
- Features: Alarm and AA battery-operated
- Weight: 2.6kg
- Dimensions: 28.4 cm x 21.3 cm x 13.4 cm
- Warranty: 12 months

RIIDEYE X-GN

Extreme Conditions PSRI

- Radiation Type: Gamma and Neutron
- Detector: 1.5”x1.5” LaBr with CLYC Neutron Detector
- Energy Range: <20keV to 3MeV
- Operating Temp: -20˚C to +50˚C
- IP Rating: IP65
- Functions: Isotope identification, spectral analysis, dose rate meter, source locator
- Features: Audio and visual alarms and AA battery-operated
- Weight: 2.4kg
- Dimensions: 28.4 cm x 21.3 cm x 13.4 cm
- Warranty: 12 months

RIIDEYE ACCESSORIES

- Reachback cable
- Serial Communication Cable
- PC Interface Cable
- Test adaptor for field performance confirmation

Scan the QR code to see full details of Radiation Spectroscopic Identifiers on our website.

RADHALO™ RDP AND FM SPECTROSCOPIC AREA MONITORS (PORTABLE AND FIXED)

- Radiation Type: Gamma and Neutron
- Detector: 3”x3” NaI (optional CLYC Neutron Detector)
- Gamma Detection Sensitivity: Identifies Co57 @ 6.6 n Sv/h moving at 30.5 cm/sfrom 100 cm away
- Neutron Detection Sensitivity: Detects 1.3 Neutrons/cm2 moving at 30.5cm/s from 100cm away
- Dose Rate Limit: +/- 20% at 661 keV (Cs137)
- Library: 49 radioisotopes including all in ANSI N42.34-2006 standard,
- Operating Temp: 30°C to 55°C
- IP Rating: IP66
- Features: Lithium Titanate battery and data storage

PASSIVE DOSIMETRY

THERMO FISHER SCIENTIFIC HARSHAW (TLD) MATERIALS AND READERS FOR PASSIVE DOSIMETRY

The Harshaw System is built around TLD Readers and TLD Materials, which ADM Nuclear Technologies has been supporting Australian users for over 25 years. Our services include supplying you the materials, readers and accessories (like cards), as well as service and technical support for Systems.

Harshaw Lithium Fluoride (LiF) materials can be used for beta, gamma, and neutron monitoring in various forms (see below) with near-tissue equivalent LiF materials providing excellent energy response. With over four decades of proven performance, users of the Harshaw TLD solutions are assured they are using ISO9001 certified reliable solution for dosimetry. Utilising multi-element cards, bespoke configuration of elements can monitor shallow (Hp(0.07)), deep (Hp(10)), and eye (Hp(3)) dose on a single card.

Material	Type	Dosimetry Application	Linear Range	Fading	Available Forms*
Lithium Fluoride LiF:Mg,Ti	TLD-100 (Li natural)	Research, Clinical	10 µGy - 1 Gy	<20% in 3 months <5% in 3 months corrected	Chips, MicroCube, Square Rod, Rod, Unsorted Chips, Powder, Pelletised Chip, Pelletised Disk
	TLD-600 (Li-6 isotope)	Neutron			
	TLD-700 (Li-7 isotope)	Gamma, Beta			
Lithium Fluoride LiF:Mg,Cu,P	TLD-100H (Li natural)	Environmental, Personnel, Extremity	1 µGy - 10 Gy	Negligible in 3 months <5% up to 2 years	Pelletised Chip, Pelletised Disk, Powder
	TLD-600H (Li-6 isotope)	Neutron			
	TLD-700H (Li-7 isotope)	Gamma, Beta, Environmental			
Calcium Fluoride Dysprosium, CaF_2:Dy	TLD-200	Environmental	0.1 µGy - 10 Gy	10% in 1st 24 hr 16% total in 2 weeks	Chip
Calcium Fluoride Manganese, CaF_2:Mn	TLD-400	Environmental and High Dose	0.1 µGy - 100 Gy	8% in 1st 24 hr 12% total in 2 weeks	Chip

HERSHAW READERS

We offer a range of TLD Readers that are designed to suit all levels of application from the Model 3500 (manual processing of loose TLD chips, pellets, and powders) up to the Model 8800 PLUS (high-capacity automated processing of cards and extremity dosimeters). More information on each of the readers can be found via the QR code.

We also offer Harshaw accessories like TLD irradiators and annealing ovens, and we would be delighted to talk to you about your dosimetry requirements. Contact our team and let us help you design and implement the best solution for your needs.

Scan QR code to learn more about the Harshaw Passive Dosimeters on our website.

OPTICALLY STIMULATED LUMINESCENCE (OSL) DOSIMETRY

Beryllium Oxide (BeO) Optically Stimulated Luminescence (OSL) - BeOSL, is a form of passive dosimetry that uses the BeO chips to provide Hp(10) and Hp(0.07) dose equivalents.

Dosimetrics OSL personal dosimetry solutions are made in Germany, commercially available worldwide since 2013, and distributed locally by ADM Nuclear Technologies.

Features of the Dosimetrics BeOSL Solutions

The technical performance and comprehensive design of Dosimetrics BeOSL dosimetry solutions make it one of the preferred options by commercial and regulatory dosimetry professionals all over the world, including Australia.

Dosimetrics BeOSL dosimeters, including both whole-body and extremity types, are available for energy ranges from 16 keV to 7 MeV. Both types are compatible with the same BeOSL reader/eraser system.

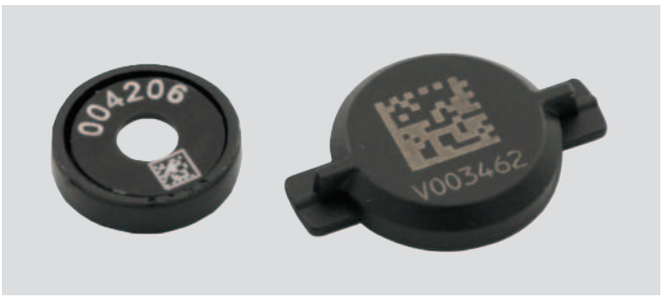
The Dosimetrics solutions can also be scaled to meet a range of operational needs – from a single reader/eraser and PC-control system to a Robot Table (fully automated system incorporating hopper feeding of dosimeters

to an automated solution of multiple reader/erasers, irradiators).

We can help you determine if this is the best solution to your requirements, contact our team for advice.

BEOSL WHOLE BODY DOSIMETER

BEOSL EYE LENS DOSIMETER



READER / ERASER

ACCESSORIES

DESIGN ASPECTS OF A RADIATION AREA MONITORING SYSTEM

Over the decades, ADM Nuclear Technologies has worked on numerous projects for clients, designing area monitoring systems, and we appreciate that systems (and requirements) have changed dramatically over the years. Systems requirements can be complex, with solutions to monitor multiple locations often for different types of radiation — neutron and gamma (including x-ray), but also potentially including aerosol (or stack) monitoring, and often requiring integration into Building Management Systems (BMS).

The principles of area monitoring, however, have remained the same — whether designed to monitor the safe storage or use of radioactive nuclides, or nuclear physics environments that generate x-rays and/or neutrons. Users require robust solutions that meet their regulatory, safety, and operational requirements.

More complex systems may also require a monitor and control system for the entrances and exits to the building, as well as the internal doors. ADM is able to provide everything from stand-alone area monitors to fully integrated and networked area monitoring, alarm, and control systems.

Neutron Radiation Monitoring

The Thermo Scientific FHT 762 WENDI (wide energy range neutron detector) is the premium detector used to detect and monitor neutron radiation. It combines excellent energy response in the “normal” energy range up to 15 MeV with a close match to the H*(10) behaviour up to 5 GeV. As well as excellent angular response and gamma rejection, data are provided by the WENDI-2 design. No significant spill-over needs to be considered for gamma dose rates up to 1 Sv/h allowing for excellent source discrimination in a monitoring setup.

X-ray Leakage / OR Radionuclide Radiation

Thermo Scientific FHZ 621 smart dose rate probes can also be installed at strategic locations to monitor X-ray leakage, or for the monitoring of radionuclides which produce gamma radiation. There are a variety of gamma probes (GM tube, ion chamber and scintillation), which can be used with the FHT 6020 together with the WENDI neutron detectors. Multiple probes can be connected to each of the Thermo Scientific FHT 6020 area monitoring system (up to 16 smart probes, or 2 other probes), which in turn are linked to a central control.

Thermo Scientific FHT 6020

The FHT 6020 area monitor has built-in solid-state relays. These can be used to control the locks on the doors to prevent anyone from accidentally entering an area with an unacceptably high level of radiation.

FHT 6020

The FHT 6020 can be integrated into networks via its RS 485 bus system, allowing cable lengths of up to 1000m. It is equipped with a flash EPROM storing the firmware, allowing updates of the basic version, as well as customer-specific programs, to be loaded on-site later. It can be easily and conveniently configured with a PC via a serial interface, and through the configuration software.

This Windows™ program, in conjunction with the optional equipment of the FHT 6020, offers an almost unlimited freedom for the user to tailor the FHT 6020 to a specific measuring task.

For a simple area monitoring solution, customers will often pair a RadEye unit (generally a RadEye G10 or PRD4 gamma monitor) with the standalone RadEye Area Monitor.

Radeye Area Radiation Monitoring System

This solution can provide a single point area monitoring (complete with light and sound alarms), as well as the flexibility to remove and use the RadEye for survey or contamination measurement.

We also offer solutions for area monitoring of Radon (and daughter products) and LLRD / aerosols – see our section on Sarad for more information.

For further information on Area Radiation Monitoring systems, please contact ADM Nuclear Technologies on 1300 236 682.

Scan the QR code to see full details of Radiation Area Monitors on our website.

THERMO FISHER SCIENTIFIC GATE AND PORTAL MONITORS

ADM has a proud tradition of the supply, install, and maintenance of large-scale portal monitors for detection of contaminated materials in scrap/recycling and other related industries. Options for portal monitors include industry leading ADMIV series (with 4 or more RDMs), with smaller or more bespoke solutions also available (including fixed point spectroscopic identification using the Radhalo FM). Please talk to us about any fixed-point contaminated materials monitoring you might have.

Scan the QR code to see full details of Gate & Portal Radiation Monitors on our website.

Thermo Fisher Scientific ASM-IV Gate Monitor

ASM-IV AUTOMATIC SCRAP MONITORING SYSTEM

Configurable platform that prevents radioactive materials from entering scrap metal and metal processing workflow. Many factors determine the most appropriate configuration for your use case, from material to be scanned, vehicle types, vertical coverage, sensitivity and cost. Contact us for a specialised advice.

- Detector interface cable: 53m
- Proximity sensor kits: Two (2) sets: High-gain IR industrial occupancy sensors and mounting kits
- Operating Temp: (System Control Unit) 0˚C to +40˚C (Radiation Detector Modules) -30˚C to +60˚C
- Weight: 8.7kg
- Dimensions: 40.6 cm x 35.6 cm x 10.8 cm
- Regulatory Compliance: UL/CSA/EN/ 61010-1, EN61326, EN55011:2007 +A2:2007; FCC subpart B (ClassA); RoHS: RoHS compliant

RADHALO™ RDP AND FM SPECTROSCOPIC AREA MONITORS

- Radiation Type: Gamma and Neutron
- Dose Rate Limit: Accuracy: +/- 20% at 661 keV (Cs137)
- Data Storage: Ability to store > 10000 ANSI N42.42 (2012) compliant spectra. Data transmission 1024-bit encryption.
- Operating Temp: 30°C to 55°C
- IP Rating: IP66
- Dimensions:
  RDP: 35.56 cm DIA x 71.12 cm Tall
  FM: 60.96 cm x 60.96 cm x 20.32 cm
- Weight:
  RDP: 16kg
  FM: 23kg

Radon, Thoron, and Radioactive Aerosol Monitoring

ADM Nuclear Technologies has been an authorised Sarad distributor for more than 15 years, providing radon and aerosol monitoring solutions for Australian companies.

Relative to most of the world, Australia has low radon levels in domestic environments, but radon and its daughter products can pose significant hazards in some industries – especially in mining and processing, and in some nuclear medicine. ADM offers a variety of products from Sarad to assist in the detection, and monitoring of Radon and aerosols in the workplace. All Sarad products are supplied with data management software (with some units requiring optional communications accessories to link with PC).

PERSONAL MONITORING

POCAMON – PERSONAL ONLINE CONTINUOUS AIR MONITOR

- Continuously monitors breathing air to detect airborne radioactive aerosols (LLRD).
- Measures radon / thoron equivalent equilibrium concentration (**EECRn** and **EECTh**)
- Measures potential alpha energy concentration (**PAEC**)
- Effective short-term area monitor of both aerosols and **Rn**/**Th**

Technical Data

- Detector: 400mm² ion-implanted silicon detector, open face sampling for minimum collection losses
- Energy Range: 0.15 ... 3MeV (Beta); 3 … 10MeV (Alpha)
- Counting Efficiency: approx. 20% (4π)
- Filter: 25mm diameter membrane *PTFE) 3um pore size
- Pump: low noise rotary van pump – adjustable airflow 1.5-3l/m)
- Weight: 1.3kg
- Dimensions: 10.6 x 5.6 x 20 cm

Measured Data

- Equilibrium Equivalent Concentration (EEC) for radon and thoron daughter products in Bq/m³
- Exposure for alpha and beta emitters (LLRD) in Bqh/m³
- Dose for alpha and beta emitters in μSv or DAC-hrs (dose coefficients adjustable by user)
- Detection of Natural Uranium with automatic selection of the Unat dose coefficient
- Average activity concentration for alpha and beta emitters in Bq/m³
- Separate channel for Alpha gross counting in cps or Bq or Markov Algorithm for Radon daughter product grab sampling

Scan the QR code to see full details of poCAMon

DOSEMAN PRO

- Personal dosimeter for the exact determination of exposure to short-lived radon daughter products (e.g. in mining and laboratories)
- Continuous measurement of radon progeny concentrations
- Small and portable pumped area measurement (not diffusion)

Theory of Operation

Collection of the Radon daughter products at the surface of a filter by a continuous air flow, with permanent alpha spectroscopic analysis of the filter.

- Filter: 17.5mm diameter Membrane filter (PTFE) 3um pore size
- Pump: Membrane pump 0.18 l/m
- Sensitivity: approx. 150 cpm @ 1000 Bq/m³ (EEC)
- Response Time: 2 hours (to 90% of the final value)
- Weight: 300g
- Dimensions: 13.8 x 5.7 x 3.2 cm

Scan the QR code to see full details of DOSEman PRO

RADON, THORON, AND AEROSOL MONITORING

RTM SERIES
RTM 1688-2 / RTM 2200 SOIL GAS / RTM 2300

The RTM series use alpha spectroscopy from four silicon detectors to separate and quantify radon (222Rn) and thoron (220Rn), as well as their decay products. This technology prevents long-term contamination from lead-210 (210Pb), ensuring measurement accuracy and long-term stability. The processor-controlled rotary vane pump guarantees efficient sampling, while the elimination of desiccant cartridges minimises maintenance efforts.

Specifications

- Detector for Rn/Th gas: quantity, pcs x size, mm² - 4 x 200, Si-detectors
- HV-chamber total volume, ml /quantity, pcs: 250/4
- Measurement of: Rn/Th gas only
- Sensitivity (Rn/Th gas), cpm/1000Bq/m³ (fast/slow) – 3 / 6.5
- Measurement range (Rn/Th gas), Bq/m³ - 1-10 000 000
- Measurement accuracy: 7%/5% @1kbq/m3; 1h
- Measurement interval: 1 sec up to weeks
- Cycles at the instrument: up to 16, programmable (7 for the 1688-2)
- Pump: YES, built-in
- Air flow rate, l/min: up to 5, regulated
- Pump operation mode: continuous/interval, programmable

Optional additions / measurement

- External Gamma probe for dose rate measurement and radionuclide identification
- Environmental sensors: temperature, humidity, pressure, CO2 (including soil gas), CH4, combustible gases
- Water analytics
- Meteorological measurements
- Soil Gas Measurement
- Aquakit for Radon in Water

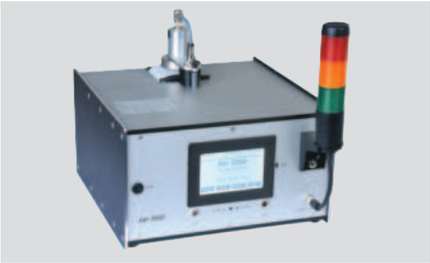
EQF SERIES

The EQF series provides measurement of Rn/Th gas and progeny via EEC. It is the ideal Working Level monitor for evaluating the availability of radon and its expected dose. The EQF models are equipped with instrument grade semiconductor radiation detectors, both in the radon measurement chamber and the sampling head for the decay products. This allows a perfect separation of the different decay products of radon, using alpha spectroscopy. In addition, the EQF 3220 distinguishes the attached, (free) unattached and cluster components of the EEC from a separate detector sampling head.

Specifications

- Detector for Rn/Th gas: quantity, pcs x size, mm²: 4 x 200, Si-detectors
- HV-chamber total volume, ml /quantity, pcs: 250 / 4
- Detector for Rn/Th progeny: quantity, pcs x size, mm²: 2 x 150 mm² Si-detector
- Measurement of: Rn/Th gas & PROGENY (EEC)
- Sensitivity (Rn/Th gas), cpm/1000Bq/m³ (fast/slow): 3 / 6.5
- Measurement range (Rn/Th gas), Bq/m³: 1-10 000 000
- Sensitivity (EEC Rn/Th), cpm/1000Bq/m³: Ca. 1000 for EQF3200, ca. 600 (attached) / 150 (unattached) for EQF 3220
- Measurement range (EEC Rn/Th), Bq/m³: 1-1 000 000
- Measurement accuracy: 7%/5% @1kbq/m3; 1h
- Measurement interval: 1 sec up to weeks
- Cycles at the instrument: up to 16, programmable
- Pump: YES, built-in
- Air flow rate, l/min: up to 5, regulated
- Pump operation mode: continuous/interval, programmable

AER AREA MONITOR: DESKTOP ALPHA/BETA CONTINUOUS AIR MONITOR (CAM)



The AER is designed for low intervention, continuous monitoring activity concentrations of airborne radioactive aerosols (LLRD)and measuring radon / thoron equivalent equilibrium concentration (EECRn and EECTh) and/or potential alpha energy concentration (PAEC) in the NORM industry, mining operations and in nuclear medicine (Th-227, Ac-225, Ra-223 and Rn-219).

Features

- Filter tape for over 330 steps or nearly 1 year at one filter change/day
- Spectroscopic separation of the nuclides and complete compensation of the natural radon background for the LLRD measurement
- Data logging of all parameters
- Flexible alert system
- Variety of communications options

Scan the QR Code to see full details of Sarad AER5000

Scan the QR code to see all our Radon and Thoron Monitoring solutions.

HOPEWELL DESIGNS - CALIBRATION IRRADIATORS AND SERVICE

Hopewell Designs is a one-stop source for radiation calibration programs, equipment, and services — with over 300 irradiator systems designed, built, and installed in over 40 countries (including Australia) since 1994.

Hopewell offers a full range of irradiation solutions from self-contained through beam irradiators – Gamma (including X-Ray), Beta, Neutron, and multi-source systems are available.

ADM Nuclear Technologies proudly distributes and supports Hopewell Designs' products in Australia. Talk to us about what you need!

Scan the QR code to see the Hopewell Irradiator range on our website.

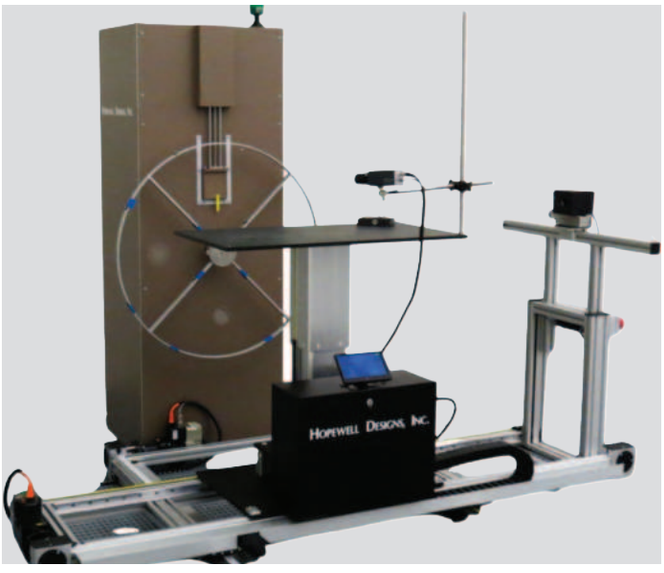
MODEL G10 GAMMA BEAM IRRADIATOR

MODEL G100 TELETHERAPY LEVEL IRRADIATOR

MODEL DI40 MAC

MODEL N40

BETA4 MULTI-SOURCE IRRADIATOR

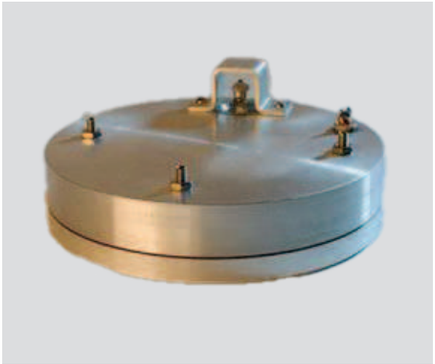


ADM Nuclear Technologies can supply GM tubes, ion chamber, neutron detectors, and X-ray proportional counters, contact our team for enquiries.

GM TUBES

- Gamma Detectors
- End Window Tubes
- Pancake Style Mica Window Tubes

IONISATION CHAMBERS



- End Window Beta-Gamma Ionisation Chambers
- Gamma Ionisation Chambers
- Neutron Sensitive Ionisation Chamber

NEUTRON DETECTORS

- BF3, Boron Lined and He3 detectors
- Fission Chambers
- Proton Recoil Counters

X-RAY PROPORTIONAL COUNTERS

- Cylindrical End and Side Window Proportional Counters
- Flow, Large Area Beta-Gamma, Pancake Style and Position Sensitive Proportional Counters

ASHLAND IRRADIATION LABELS

Ashland's Rad-Sure™ indicators provide positive visual verification of the irradiated status of blood units. In addition, the Dose-Map™ calibration system validates the performance of blood irradiators providing peace of mind that blood is safe to use.

ADM is a proud distributor of Ashland products in Australia.

- 15 and 25GY Xray/Gamma radiochromic film Irradiation Labels
- Sterin Insect Irradiation Labels
- Irradiator Dose Maps

CHECK SOURCES

ADM can supply a variety of radionuclide check sources for your applications.

We can source calibrated sources as well as batch produced check sources.

We work with Spectrum Techniques, based in the USA to provide clients with US NRC (and ARPANSA) exempt check sources - including source kits with alpha, beta, and gamma emitters.

WAVECONTROL

WAVECONTROL
Safety, Quality, Service

Measuring Non-Ionising Radiation for Electromagnetic Safety

Electromagnetic Energy (EME) and Radio Frequency (RF) emissions may pose potential risks to human health for the general public and workers across all industries, some for example, rail, TV broadcast, mobile phone transmission, energy production and delivery, EV vehicles, metal production, research, and aviation to name a few. It makes regular monitoring essential for safety and regulatory compliance within these industries.

As technology continues to evolve, it is critical that Electromagnetic Field (EMF) meters and probes remain up to date with current standards to ensure accurate and reliable assessments of EME and RF levels.

To ensure we can offer the best products to cover human safety across this section of the electromagnetic spectrum, ADM Nuclear Technologies has teamed up with world renowned EMF / EME meter manufacturer, Wavecontrol, to supply the Australian market its professional quality instruments for measuring electromagnetic fields from DC to 90 GHz for evaluation and control of exposure of workers and the general public.

Cost-Effective EME and RF Monitoring Rental Equipment with ADM Nuclear Technologies

A common challenge faced by companies is the cost associated with purchasing an EMF meter and relevant probe(s) for ensuring compliance of their application, product, or local environment — not to mention the expense of maintaining calibration certification. ADM can help mitigate this with our EMF survey equipment rental services.

One of Australia's largest and most respected occupational hygiene consultancy groups — with over 50 years of local and international experience — addresses this challenge through ADM Nuclear Technologies' rental and calibration services.

Over the years, ADM has been the consultancy company's trusted provider for all EME and RF measurement needs, supplying equipment such as the Wavecontrol SMP3 and SMP2 field strength meters, along with specialised field probes for various application surveys. This partnership allows the local consultancy company to conduct assessments across the entire RF spectrum, from DC to 90 GHz, at short notice — without the cost of ownership or the ongoing burden of annual ISO 17025 laboratory calibrations.

Wavecontrol SMP3 Portable EMF Monitor and Field Probes

SMP3 meter is a fully compliant and flexible solution capable of measuring from DC up to 90 GHz for electric and magnetic fields. It is a multi-standard device designed to offer maximum flexibility with simplified use.

If you are looking for appropriate Electromagnetic Energy (EME) meters and field probes for your applications, contact ADM Nuclear Technologies at 1300 236 467.

Scan the QR code to see our EME & RF Monitoring solutions on our website.

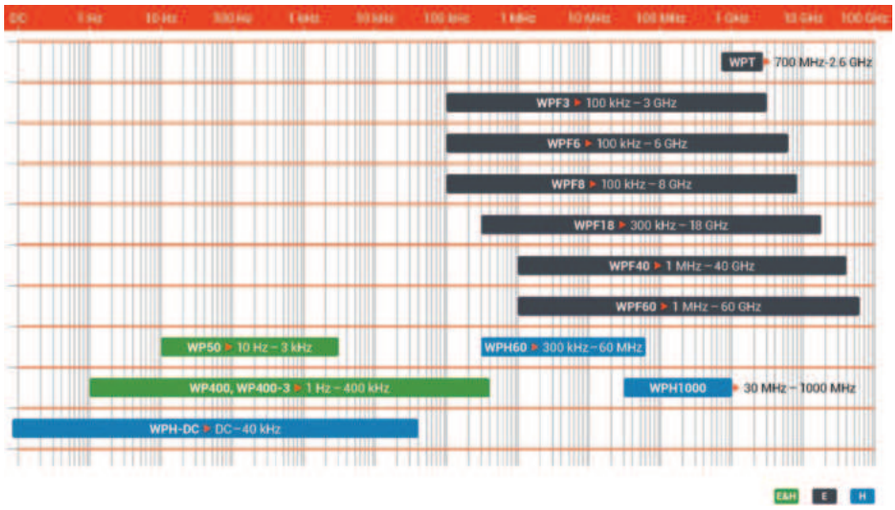
SMP3 METER

- 3-in-1 Meter - Probes for DC up to 90GHZ
  - DC Field measurements
  - Spectrum Analysis – FFT up to 10 MHz
  - Broadband measurements up to 90 GHz
- Probe auto-detect capability
- Weighted Peak Method (WPM) for automatic and real time comparison with limits
- Display of results in RMS and peak values
- E&H field selection
- Total field value and value for each component (X, Y, Z)
- Frequency SPAN selection
- High Pass Filters at 1 Hz, 10 Hz, 25 Hz and 100 Hz
- Max-hold function
- Display of maximum, minimum and average values
- Sliding window function according to standards
- Spatial average function
- Programmable alarm function
- Digital output for real time external measurements
- EU Directive 2013/35, ICNIRP, IEC, EN, IEEE, SC6
- Multiple mounting options

Wavecontrol Field Probes

All the field probes are plug and play with the SMP3 meter which recognises the probe connected to it and invokes all functionality relevant to that range of EM spectrum measurement.

The latest WP10M probe (1 Hz – 10 MHz) is a unique solution in the market for fully compliant low frequency measurements up to 10 MHz using the weighted peak method (WPM) required in the standards.



WPF8 FIELD PROBE

- Freq. Range: 100 kHz to 8 GHz
- Electric field measurement
- Compatible with SMP3, MonitEM, and MapEM
- Sensor Type: Isotropic and RMS Diode technology
- Frequency response: Flat

WP400 FIELD PROBE

- Freq. Range 1 Hz – 400 kHz
- Electric and Magnetic field measurement
- Compatible with SMP3 and SMP2
- Suitable for low-frequency EMF in power systems, railways, and welding

WPF3 FIELD PROBE

- Freq. Range: 100 kHz - 3 GHz
- Electric field measurement
- Compatible with SMP3, MonitEM, and MapEM
- Suitable for telecommunications and broadcasting

WP10M FIELD PROBE

- Freq. Range: Full Band: 1 Hz – 10 MHz and Low Band: 1 Hz – 400 kHz
- Electric and Magnetic field measurement
- Compatible with SMP3, MonitEM, MapEM
- Covers very low to mid RF

WPF90 FIELD PROBE

- Freq. Range: 30 MHz to 90 GHz
- Electric field measurement
- Compatible with SMP2, SMP3, MonitEM, MonitEM-Lab, MapEM
- Used to measure the high frequency application like radar, satellite, and communication systems, etc.

WPH-DC FIELD PROBE

- Freq. Range: DC – 40 kHz
- Magnetic field measurement
- Compatible with SMP3
- Isotropic & True RMS measurement

ACCURATE RF LEVEL MONITORING OF 5G AND TELECOMMUNICATION TOWERS FOR OHS

Occupational health risks are deemed higher for workers who regularly work near 5G and telecommunication towers, where they may be exposed to elevated radio frequency (RF) emissions.

With the rollout of 5G tower stations, and growing demand for electrical and telecommunications upgrade services, Austek – one of North Queensland's leading electrical and communications systems providers – engaged ADM Nuclear Technologies to assist with the acquisition of a reliable RF monitor to protect its workers in that environment.

ADM recommended Wavecontrol's WaveMon RF-60-ARPANSA personal monitor, as it aligns perfectly with Austek's safety requirements for its workers due to WaveMon RF-60-ARPANSA's capability to measure a broad range from 100 kHz to 60 GHz. This extensive frequency coverage ensures complete electric and magnetic field monitoring, suitable for Austek's various applications. Also, the unit is aligned with Australia's ARPANSA RPS-S1 limits to ensure the user is protected in our local environment.

Stand Out from the Competition

In a similar case, a recent study has been conducted for a large energy provider in Queensland to ensure safety of its workers while working near telecommunication antennas.

A WaveMon RF-60-ARPANSA monitor, and its counterparts were subjected to actual workplace situation tests, as well as intense tests exposing the monitors to energised conductors.

The performance of WaveMon RF-60-ARPANSA proved superior to other devices due to its ability to differentiate RF from 11 kV energised conductors. WaveMon RF-60-ARPANSA only activated the false alarm in rare scenarios when it touched energised 22 kV conductors, and when placed within 10cm of the energised 33 kV apparatus.

The WaveMon RF-60-ARPANSA provided reliable protection for workers without triggering false alarms, which can lead to workplace inefficiencies such as unnecessary downtime. Unlike other monitors, it is not affected by interference from live HV transmission conductors.

Wavecontrol WaveMon Personal EME and RF Monitors

The Wavemon wearable radiation dosimeters are for continuous monitoring of worker's EMF and RF emission level exposure. They are fully customisable, highly accurate, reliable and equipped with alarm features.

WAVEMON RF-60-ARPANSA

- Personal RF Monitor 100 kHz – 60 GHz
- Sensor: Isotropic, RMS diode
- Response shaped to specific standards depending on model
- Ready for 5G measurements
- Optional GPS and Altimeter
- Data logger >1 000 000 events
- IP54
- Size: 174 x 42.5 x 33 mm
- Weight: 190 g

WAVEMON RF-8

- Personal RF Monitor
- Sensor: Isotropic, RMS diode
- Response shaped to ICNIRP 1998/2020, Directive 2013/35/EU, FCC and Safety Code 6
- GPS and Altimeter
- Data logger >1 000 000 events
- IP54
- Size: 174 x 42.5 x 33 mm
- Weight: 190 g

WAVEMON LF-400 ICNIRP

- H field - DC to 400 kHz
- Sensor types:
  - DC (0 Hz) - Isotropic hall sensors
  - 10 Hz - 400 kHz - Isotropic coils
- Response shaped to specific standards depending on model (contact ADM for details)
- Optional GPS and Altimeter
- Data logger >1 000 000 events
- IP54
- Size: 174 x 42.5 x 33 mm
- Weight: 190 g

AREA MONITORING OF EME

The MonitEM family of products is a set of devices for continuous monitoring of electromagnetic fields. A single concept resulting in several models to meet specific monitoring needs for both indoor and outdoor applications.

To complement the area monitoring installation, Control Centre is a web-based application that allows remote configuration, data consultation, report generation, and management of MonitEM, MonitEM-IoT and MonitEM-Lab continuous monitors, among other functions. The Control Centre is accessible from any computer with a web browser and offers the option of a public Internet page to display data and compare it easily with regulated limits.

Wavecontrol MonitEM and MonitEM-Lab Area Monitors

The Wavecontrol MonitEM is permanent EME monitoring system for outdoor use that enables on-going scrutiny of the emission levels of any source of electromagnetic radiation (mobile telephone antennas, WiFi, high-voltage power lines, etc.) and verification that they meet local safety standards. A combination of AC power with a battery and solar panel. Smart Energy management allows uninterrupted, efficient and sustainable operation. Measurements taken can be published via the Internet to the different stakeholder communities.

The MonitEM-Lab is an ideal solution for indoor use where high frequency radiation is present or high-power testing is being undertaken, for example laboratories, test benches, calibrations facilities.

MONITEM AREA EMF MONITOR

- Sensor type: Isotropic, RMS, Simultaneous 3-axis measurement
- Probe system: Interchangeable, 10 Hz to 60 GHz
- Sampling frequency: 500 m
- IP66
- Temperature: - 25 ºC to + 60 ºC
- Dimensions: 253 mm x 292 mm x 385 mm
- Weight: 3.6 kg (including solar panel)

MONITEM-LAB AREA EMF MONITOR

- Sensor type: Isotropic, RMS, Simultaneous 3-axis measurement
- Probe system: Interchangeable, 100 kHz to 60 GHz
- Sampling frequency: 500 ms
- Dimensions: 445 x Ø120 mm (17.5 x Ø4.72 in.)
- Weight: 2.4 kg

WAVECONTROL MONITEM-IOT AREA MONITOR

MonitEM-IoT networks in modern settings, wide-area monitoring becomes possible, enabling the identification of risk zones and the implementation of corrective measures to safeguard citizens' safety. It features 24/7 exposure measurement, wide frequency band: up to 8 GHz, houses an electric field isotropic sensor and provides real-time alarms. It is first of its kind in the industry being battery or PoE powered, small in size, easy to install and requires no maintenance.

- Sensor type: Electric field isotropic (3 axis) RMS diode technology
- Frequency range: 500 kHz - 8GHz
- Measurement range: 0.7-250 V/m
- IP65
- Temperature: -20 C to 50 C
- Dimensions: 24 cm x 7.5 cm x 6 cm
- Weight: 550g

For all your EMF survey equipment loan and acquisition requirements, ADM Nuclear Technologies has the expertise and local technical team that can help provide you with appropriate Wavecontrol measurement devices for your applications. Contact us at 1300 236 467.

OUR SUPPLIERS

ThermoFisher SCIENTIFIC

SARAD®

WAVECONTROL
Safety, Quality, Service

HDI Hopewell Designs, Inc.
Engineering, Manufacturing, & Service

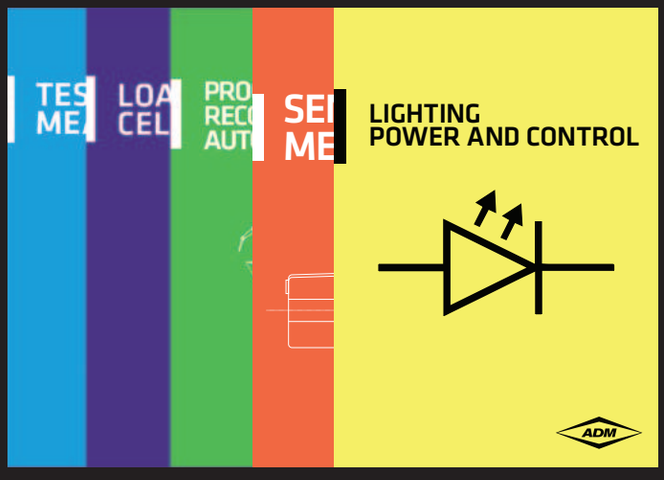
DOSImetrics

LND, INC.

Spectrum Techniques

PSI ROTUNDA Scientific Technologies
www.RotundaSciTech.com

Ashland
always solving



ADM Product Brochures

THE BEST PRODUCTS AT YOUR FINGERTIPS

ADM Systems represents leading manufacturers of the finest engineered power supplies, LED drivers, encoders, position transducers, pressure transducers, load cells, and other industrial and process measuring devices in Australia.

We have launched six product brochures that detail our expertise in Lighting Power and Control, Industrial Power, Load Cells, Sense & Measurement, Test & Measurement, and Process Control, Recording and Automation.

ADM

ADM SYSTEMS GROUP

+61 1300 236 467
sales@admtech.com.au
admtech.com.au

Contact us to request a copy of our other product brochures.