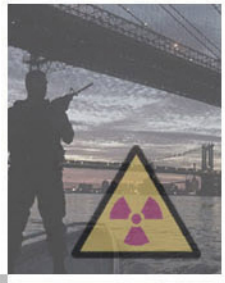
ADVANCED TECHNOLOGY FOR A SAFER WORLD

GammaTRACER

Autonomous Gamma Measurement Probe



The GammaTRACER is designed for continuous measuring, recording and optionally transmitting the environmental gamma dose rate – more than 3 000 probes in worldwide use The hermetically sealed probe, including the GM detectors as well as all electronic components, operates completely autonomously and is independent of any physical connections, thus resisting extreme climatic and environmental conditions. Energy-saving chip technology allows maintenance-free non-stop operation of the GammaTRACER probe of typically five years, optionally up to ten years!

The time resolved measurement values are stored together with the auxiliary and QA parameters (built-in storage up to 12.800 data sets). Data download and parameterization can be performed via an interactive infrared or cable port. DataEXPERT, a professional user-friendly database, communication- and analyzing software guarantees both, a simple and safe access to the stored data as well as their powerful visualization and fast, precise analysis. Via WebVIEW data can be accessed and configured via any standard browser.

Offering easy installation, fast relocation and long autonomy, GammaTRACER, enhances new approaches in environmental monitoring for routine as well as for emergency management. Additional interface possibilities for online and real-time data transmission, ranging from wired modules (RS232, RS485) to sophisticated wireless transmitters (ShortLINK) fulfill a wide variety of user needs.

FEATURES

- Autonomous waterproof gamma dose rate probe for stationary and mobile use
- Battery operation up to 10 years
- Built-in quality assurance system (QA)
- Long-time stable calibration
- High sensitivity and accuracy
  - Wide measurement range: 1 uR/h to 1,000 R/h (dep. on type)
- DataEXPERT data management software for evaluation and reporting, access to data via Web Browser
- Approvals: PTB (DE), NRPB/PHE (UK), GOS Standard (RU, UA), CTHIR (FR)

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The flexible GammaTRACER XL2 version includes moreover standardized transmission services (SMS/GSM/GPRS, WiFi, DSL, LAN). Optionally GPS acquisition, additional sensors, display and solar power supply. A seismic qualified version is also available.

The latest GammaTRACER type SPIDER, particularly designed for emergency response, enables deployment of probes via remotely controlled aerial drones without human intervention also via satellite data transmission (IRIDIUM).

GammaTRACER

SPECIFICATIONS

Radiation type:	X and Gamma
Detector type:	2 or 3 energy-compensated Geiger-Mueller tubes
Measuring unit:	H*(10), Hx, R
Dose rate measurement range:	BASIC: 2 uR/h to 1 R/h (20 nSv/h to 10 mSv/h) Wide: 2 uR/h to 1,000 R/h (20 nSv/h to 10 Sv/h) High: 100 mR/h to 1,000 R/h (1 mSv/h to 10 Sv/h) XL2: 1 uR/h to 1,000 R/h (10 nSv/h to 10 Sv/h)
Measurement cycle:	From 1 minute to 120 minutes
Fast response mode (XL2):	1 second
Energy range:	BASIC/Wide: From 45keV to 3 MeV HIGH: From 80keV to 4.4 MeV XL/XL2: From 45keV to 2 MeV
Internal storage:	Up to 12,800 data sets, up to 1,065 days, depending on probe type and measurement cycle
Built-in sensors:	Temperature, hygrometry, shocks, optional GPS
Operating temperature:	-4° to 122° F (-20° to 50°C) Optional: -40° to 140° F (-40° to 60°C)
Battery life:	Up to 10 years without internal solar panel Unlimited with internal solar panel (in 10 min. measurement cycle, according to environmental conditions)
Communication Interfaces:	Infrared, RS232/RS485, GSM/GPRS, SMS, ShortLINK/SkyLINK radio, satellite
IP Index:	IP 68 (hermetically sealed housing), IP 67 cable versions
Options:	Additional sensor (rain, wind, weather) Solar panels power supply Seismic qualified version

APPLICATIONS

Nationwide Monitoring

Perimeter Monitoring for Nuclear Facilities

Area Monitoring

Emergency Applications

LAURUS SYSTEMS

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