

КЛИЕНТ: АЕЦ КОЗЛОДУЙ ЕАД**Лице за контакт:**Виолетка Димитрова
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E-mail: commercial@npp.bg**ДОСТАВЧИК: Тита-Консулт ООД****Лице за контакт:**Явор Андреев
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Страници: 1 от 2**О Ф Е Р Т А****ОТК – 485 / 16.12.2022г.****ОТНОСНО:** Пазарна консултация № 50344 с предмет „Модернизация на система за общ дозиметричен контрол в стационарна лаборатория за РГК“**Уважаема госпожо Димитрова,**

Във връзка с публикувана Пазарна консултация № 50344, Тита-Консулт ООД Ви предоставя следната Оферта:

№	Наименование	К-во (бр.)	Ед. цена в лева (без ДДС)	Обща цена в лева (без ДДС)
1.	Гама радиационен монитор за автоматичен мониторинг Berthold LB 115 , със следните характеристики: <ul style="list-style-type: none">- Два измервателни канала- Съвместим с гама сонди LB6500-3-N10 и LB6360-N10, тъй като същите са производство на фирма Berthold- Измервателни единици: Н*(10)- Запазва своята работоспособност при относителна влажност 0 ÷ 93%- Запазва своята работоспособност в температурен диапазон от -25°C ÷ +50°C- Захранване: 220V, 50Hz, EU стандарт- Сила на звукова сигнализация: по-голяма от 80 dB- Притежава трицветна светлинна сигнализация- Притежава вграден 7” дисплей за показване на измерваните стойности на гама сондите- Специализиран софтуер за конфигуриране, събиране и архивиране на данните, проверка и диагностика на работата на системата и изготвяне на справки	1	12,200.00	12,200.00
2.	Интерфейсни кутии за връзка с детекторите	2	1,190.00	2,380.00



3.	Свързващ кабел 5m от LB 115 до интерфейсна кутия	2	450.00	900.00
4.	Свързващ кабел 1m от интерфейсна кутия до сонда с Tichel конектор	2	635.00	1,270.00
5.	Доставка	1	200.00	200.00
ОБЩО: Шестнадесет хиляди деветстотин и петдесет. 00 лева без ДДС				16,950.00

ПРИЛОЖЕНИЯ: БРОШУРА НА BERTHOLD LB 115 DATA LOGGER

1. **Условия на доставка** DDP АЕЦ Козлодуй ЕАД с включен монтаж
2. **Срок на доставка** До 6 месеца, след възлагане на поръчката
3. **Начин на плащане** До 30 календарни дни от приемане на доставката
4. **Точен адрес** гр. София 1164, бул. „Джеймс Баучер” № 5А
5. **ЕИК** 831508563
6. **ИН по ДДС** BG 831508563
7. **Банкови реквизити** Уникредит Булбанк АД, гр. София, пл. „Света Неделя” № 7
8. **ВІС** UNCRBGSF
9. **Банкови сметки** В ЛЕВА BG13UNCR76301008140309
10. **Валидност на офертата** 60 календарни дни
11. **Съпроводителна документация**
 - Ръководство за работа
 - Декларация за произход;
 - Декларация за съответствие;
 - Приемо-предавателен протокол

Надяваме се нашата Оферта да Ви удовлетворява!
За допълнителни въпроси оставаме на Ваше разположение!

Заличено на основание ЗЗЛД

УПРАВИТЕЛ:

/ЯВОР АНДРЕЕВ/



DOSE RATE MONITORING YOUR WAY

The LB 115 Data Logger

DOSE RATE MONITORING YOUR WAY

High flexibility. Maximum safety.



The LB 115 Data Logger Stationary Dose Rate Monitoring System

The LB 115 Data Logger is a stationary dose rate monitoring system providing high flexibility and maximum safety. The system consists of a head unit with a 7" colour touch screen display, user-friendly software for intuitive operation, electronics for flexible alarm signalling and can be combined with up to two external probes.

LB 115 Data Loggers are designed to measure dose rate levels in nuclear facilities, nuclide laboratories, hot cells, and many other laboratories and production facilities.

LB 115 benefits at a glance

- ❖ Large, colour touch-screen display for best readability even from a greater distance
- ❖ Intuitive, easy to use software that provides you with a quick overview of the current situation
- ❖ Create flexible alarm concepts with up to 4 alarm thresholds per channel to meet even complex security concept needs
- ❖ 5 double relays for flexible alarm forwarding and triggering of immediate reactions (optical alarm, targeted control of room doors, ...)
- ❖ Connect up to 2 measuring probes to meet even the requirement of different measuring tasks

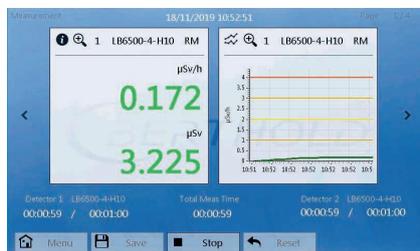


Figure 1:
Flexible display options



DESIGNED TO SUPPORT YOUR SAFETY CONCEPT

Benefit from a variety of connection options & easy handling

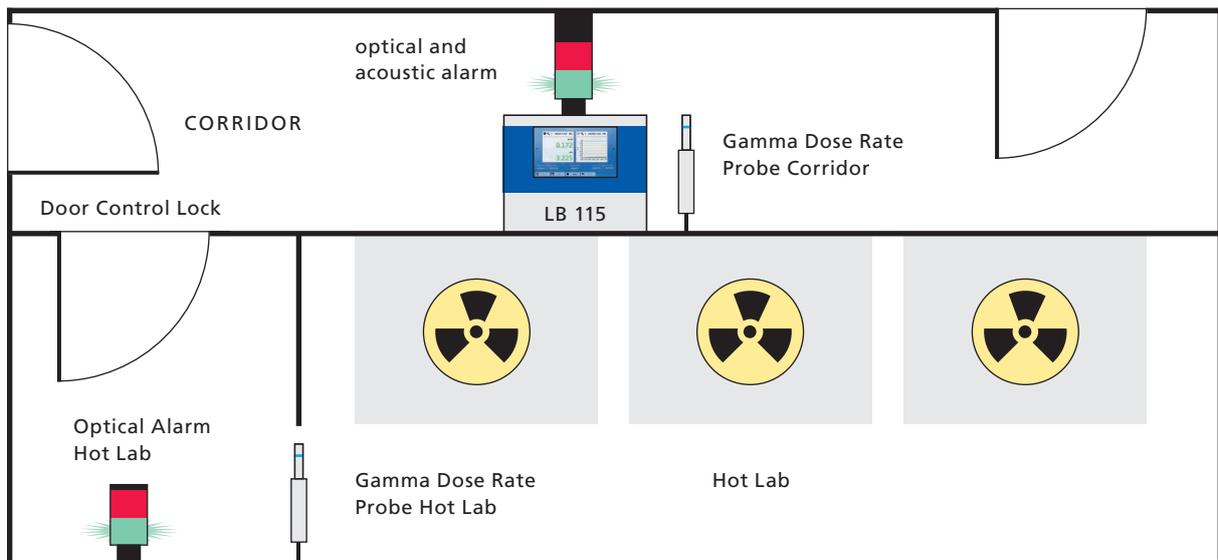


Figure 2:
Integration example of a LB 115 controlling door control lock, two Gamma dose rate probes & optical and acoustic alarms

The LB 115 Data Logger was developed to meet the requirements of even complex security concepts. The system offers a high degree of flexibility through numerous combination possibilities with established measuring probes and data processing in real time.

Application flexibility

The LB 115 data logger is used to display, record and store measurement data. Up to 2 measuring probes can be connected (dose rate, contamination or activity measurement).

- ♦ Gamma and neutron dose rate probes (e.g. LB 6411)
- ♦ Low/high dose rate system with automatic switching (2 probes, e.g. LB 6500-4 H10 and LB 6500-3 H10)
- ♦ Large area proportional counter tubes (e.g. LB 6350)
- ♦ Scintillation detectors (e.g. LB 1342)

In combination with corresponding detectors, the data logger LB 115 is suitable as a stationary dose rate monitor or as an activity meter for measuring beta gas activities in room and exhaust air as well as for measuring contamination.

Flexible handling

The LB 115 offers you a variety of features that make both, integration and handling easier:

- ♦ Intuitive, app-like touch-screen user interface
- ♦ Measured values can be displayed both, numerically and graphically
- ♦ Remote control option
- ♦ Flexible, easy data transfer options
- ♦ Password protected input parameters and access level restriction
- ♦ Connectivity to support various visual and acoustic alarm units

Mechanical data

Dimensions 30 cm × 25 cm × 10 cm (W × H × D), stainless steel

Weight incl. signal tower approx. 5,5 kg

Electronics

Display 7" color touch screen, 800 × 480 pixels

Potential-free relay 5 × 2 change-over contact max. 50 VAC/120 VDC, 3 A

Optional 24VDC supply Internal, max. connection power 12 W / 500 mA

On/off switch Key switch

Ambient conditions

Temperature -25 °C to 55 °C (-25 °C to 50 °C with signal tower)

Relative humidity 0 – 93 % (at +35 °C), non-condensing

Protection class IP65

Pollution de-gree 2

Power Supply

Voltage 100 to 240 VAC, 50/60 Hz,

Power max. 60 W (at 20 °C)

Fuse T1.6 A / 250 V (slow bow)

Software

Measuring modes Ratemeter, moving average and counter / timer operation

Data memory Up to 100.000 measured values

Back-up function Parameter Up-/Download for external data backup

Alarm modes 4 alarm thresholds, 1 integral threshold and 1 failure threshold per probe

Service mode Various service routines such as background measurement, system test and hardware test

Interfaces

Ethernet (ext.) 10 / 100 / 1000 Mb

USB Host (Typ A,) (external) USB 2.0 (HS); max. 200 mA; Updates via USB;

USB Device (Typ B) (external) USB 2.0 (HS)

RS485 (internal) 9600 – 115 200 Baud, 8 data bits, 1 start bit, 1 stop bit, no parity, no handshake, Cable length up to 1200 m, max. 15 participants, Cable STP

Probes 2 × RS485 + 24 VDC for detector-interface

Digital inputs 3 × galvanically isolated, Low active (High = 5 V at input)

Current outputs 2 × galvanically isolated, load 300 Ω, modes: 0 – 20 mA, 0 – 24 mA, 4 – 20 mA

Measuring task Detector type (LB type)

Gamma and Geiger-Müller (LB 6500-x)

neutron Proportional counter (LB 6360)

dose rate

Ionization chamber (LB 6701x)

Neutron-counter (LB 6411)

Beta-gas activities in room and Large area proportional counter tube (200 cm²) (LB 6350)

exhaust air

Large area proportional counter tube (1000 cm²) (LB 6377)

Contaminations Scintillation detector (170 cm²) (LB 1342)

Scintillation detector (300 cm²) (LB 1343)

Accessories

Signal tower Siren (opt.), LED green, flash light red

Siren (opt.), LED green + yellow, flash light red

Detector-Interface

Dimensions 9 cm × 11,5 cm × 5,5 cm (W × H × D)

Weight approx. 0,5 kg

Protection class IP65

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