



**FOR SPOT MEASUREMENT OF RADON ACTIVITY CONCENTRATION IN ATMOSPHERIC ENVIRONMENT.**



CALEN – Alpha Counter

### Applications :

- Building mapping in compliance with ISO 11665-8 standard.
- Monitoring of working areas.

- The apparatus is specially adapted to the counting of scintillating flasks produced by ALGADE.
- Portable apparatus comprising a photomultiplier in conjunction with a counting chain.



### References to order :

1- Product	Reference
CALEN	P-581-100



CALEN is delivered with:

- ❖ A RS232 serial cable,
- ❖ An External 12V power supply,
- ❖ A manual.



### Specifications :

#### Sensor used :

Photomultiplier 10 stages  
 Photocathode diameter 37 mm  
 Maximum sensitivity 420 nm  
 Background noise < 0.2 counts / hour  
 High Voltage power supply.

**Controls :** by 2 push buttons.

#### Pre-selected times :

5, 10, 30, 60, 600 seconds.

**Maximum counts :** 99 999 events.

**Cycles :** from 1 up to 999

**Display :** Liquid crystal screen with 2 lines of 16 characters.

#### Connection to PC :

by RS232C link  
 3 wires TxD, RxD, Gnd / 19200 bauds/ 8 data bits /  
 No parity / 1 stop bit.

#### Power supply :

External sector 220 V. 50 Hz to 12 V. DC.

#### Microcontroller :

PIC 16F73 type to 16 MHz  
 4 kbytes of flash memory  
 2 banks of 96 bytes RAM memory  
 C language.

#### Safety :

High voltage power supply automatic switched off when cover removed,  
 Fuse 5\*20 mm 500mA delayed.

**Casing :** made of polycarbonate plastic.

**Weight :** 880 g.

**Size :** 200\* 135\* 278 (L\*I\*h) mm

#### Temperatures :

Storage -20°C to +60°C  
 operating 0°C to +40°C

**Protection index :** IP40



CALEN meets the requirements of ISO 11665-6 standard.

## ALGADE INSTRUMENTATION

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