



**Technical Specifications of a portable Device
For SF6 leak detection**

**Part I. Technical requirements
Part II. Special requirements**



Part I. Technical Requirements:

1. Portable device with rechargeable battery and charger, as well as a spare battery
2. Leak detection of SF6 from a distance in high voltage equipment (150kV, 400kV), using laser beam scanning and image recording, without a requirement for a specific background.
3. Detection of SF6 leaks under tension.
4. Leak detection equal or better than 1mL/min.
5. Operation temperature: -10° C to +50° C.
6. Environment humidity: 0 to 90% PH (relative humidity without condensing).
7. Storing of leak video with a digital format, in embedded memory or external data card.
8. Interfaces : Ethernet, RS232, NTSC, S-video, USB
9. Embedded software, with easy-to-use menus and an LCD display for the quantification of SF6 leaks based on image recording.
10. Kit for easy transfer of the device, using shoulder straps or harness, for long lasting use in the field.

Part II. Special Requirements:

1. After signing the contract, the supplier must:
 - 1.1. Να εγκαταστήσει πλήρως τη συσκευή.
 - 1.2 Prove the proper operation of the device in the laboratory, within one month after the arrival of the device in the laboratory of ADMIE..
 - 1.3 Prove the repeatability of each measurement, applying the requested methods for a satisfactory number of oil samples (at least 10).
 - 1.4 The device will be checked against the specified characteristics. In case of not fulfilling even one of the characteristics, then the device will not be accepted.
 - 1.5 The supplier will be obliged to provide full technical support for maintenance and proper operation of the device that will be installed in the physic-chemical laboratory.
 - 1.6 There will be full coverage of spare parts for a period of five years. The supplier will be obliged to supply ADMIE with all the requested spare parts, within two months upon request.
 - 1.7 The device will need to be supplied with CE certification and the manufacturer must also be certified accordingly.
2. The supplier will be obliged to deliver, along with the device, the manuals in both English and Greek language. The manuals must include full description of the device operation, as well as maintenance and tuning in case of improper operation.
3. After the successful installation and inspection of the device, the contracted price will be paid and the guarantee period will be initiated. The guarantee period will be covered by a letter of guarantee of 10% of the contracted price. The letter of guarantee will be returned to the supplier after the expiry of the guarantee period, unless forfeited for any reason. The guarantee period will have a duration of at least two years.