

SAMPLING
SOLUTIONS

MEGA SYSTEM

CALIBRATION
& METROLOGY

LIFE SERIES



- **ATEX Certification**
(Group II 2 G Ex ib IIA T4 Gb)
- Compliant with
UNI EN ISO 13137
- Wide Flow Rate Range
- Sampling at **constant flow rate**
- **Automatic** load loss compensation
- Completely equipped

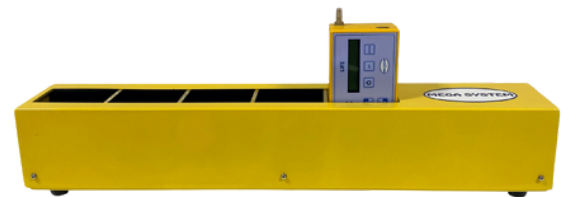


LIFE SERIES

Life Series **personal samplers**, available with **Life LT and Life XP** models, are compliant with **UNI EN ISO 13137**. This makes them ideal for carrying out **personal sampling** in compliance with European directives on **health and safety in the workplace**. (Legislative Decree 81/2008).

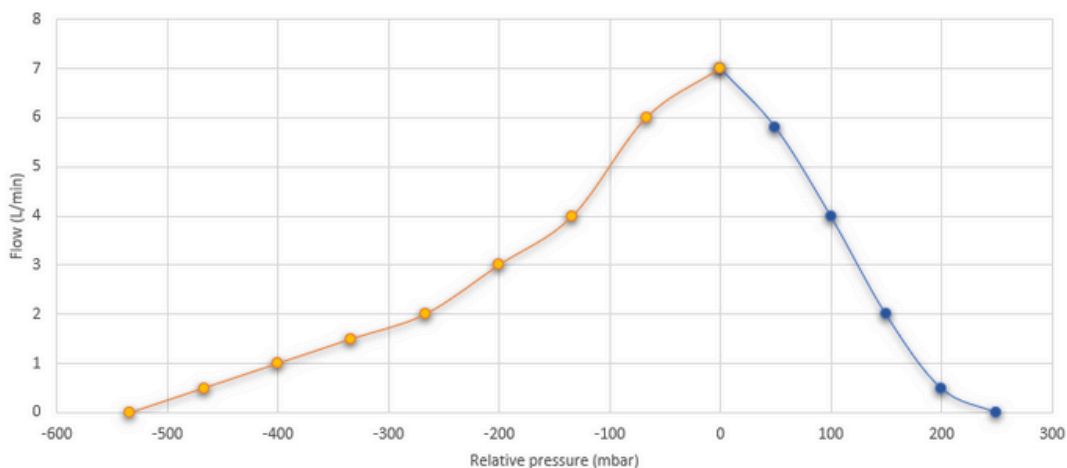
Their precision and reliability makes them suitable for various applications including:

- **Asbestos**
- **Inhalable fractions**
- **Respirable fractions (crystalline silica)**
- **Wood dust**
- **Solid phase gas absorption (by means of adsorbent vials)**
- **Liquid phase gas absorption (by means of impingers)**
- **Sampling bag filling**



The Life LT and Life XP models are available in the **ATEX version** (GROUP II 2 G Ex ib IIA T4 Gb) and can be used to perform gas and vapor sampling in emissions.

CHARACTERISTIC CURVE OF THE PUMP



LIFE SERIES

MAIN FEATURES _____

- The pump is an elevated double-headed diaphragm type and guarantees a high level of precision in flow regulation throughout the operating range. Working in combination with its electronic management and control system, it maintains a constant flow rate throughout the sampling period and allows for automatic compensation for load loss due to filter clogging.
- The pump construction features and the by pass function allow flow rate adjustments from 20 cc/min to 6 L/min without additional external accessories. The sampling flow is set manually with the aid of a spherical- or soap bubble- flow meter.
- Life XP model is equipped with a keyboard and display for executing dedicated programming and data management software. They also have a clock for DATE and TIME management. Using activated memory, single or multiple samplings can be programmed and when memory is disabled, samplings can quickly be programmed. The stored data is shown on the display, printed and / or downloaded to a PC.
- The alarm function flags deviations greater than 5% of the flow, compared to the set value, caused by an increase in load loss. In the Life XP model is summed and recorded. The error percentage is calculated according to the set sampling time and the time actually taken.
- In Life XP model, the sampled air temperature value is recorded at selectable time intervals. At the conclusion of the sampling, the initial, final and average temperatures are recorded.
- High capacity rechargeable internal batteries (NiMH) with no memory effect ensure long running samplings. The unit comes with a power supply and the POWER/CHARGE function allows sampling, when running on mains voltage and simultaneously performing an optimized battery charge.
- The charger is built into the instrument and has an LED indicator that signals that the charge is underway. In the Life XP model, the charging status percentage is shown on the display.
- The Life Series sampling units are compact and weigh only 670 g. When placed in their carrying cases, a comfortable shoulder strap allows for easy portability for operators conducting personal sampling.

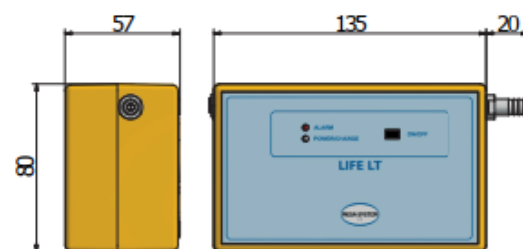


SERIE LIFE

TECHNICAL FEATURES

| MODEL | LIFE LT | | LIFE XP |
|--|---|--|---------|
| • PERFORMANCE | | | |
| Type of pump | Membrane - dual head 8 L/min | | |
| Operating range with in-line captator | 20cc/min ÷ 6L/min | | |
| • INTERFACE, DATA ARCHIVING | | | |
| Display | Alfanumeric LCD (16x2) | | |
| Keyboard | - | ✓ | |
| Interface | - | RS232 port (it needs dedicated optional cable) | |
| • ENVIRONMENTAL CONDITIONS | | | |
| Temperature | -10 °C ÷ 45 °C 95% UR | | |
| • ENERGY | | | |
| Power | Internal rechargeable batteries that guarantee high autonomy, free of memory effect | | |
| Autonomy | >8 hours with MCE Ø25 mm - 0,8µm to 3 L/min | | |
| Battery Charger | Built-in, with POWER/CHARGE function | | |
| • FEATURES | | | |
| Memory | - | Data memory (5 samples) | |
| Weight | 650 g | | |
| • OPTIONS | | | |
| ATEX (Group II 2 G Ex ib IIA T4 Gb) | ✓ | ✓ | |
| • SUPPLIED WITH | | | |
| Technical Manual | | | |
| Test Report | | | |
| Power supply | | | |
| Carrying case, shoulder strap and belt for connecting bags | | | |
| Bypass flow adjustment hex wrench | | | |

SERIE LIFE



| *** LIFE XP *** | |
|----------------------------------|------------------|
| S/N 0000 00/0000 GR000000 SW 0,0 | |
| BAROMETRIC PRESS. | 1013 hPa |
| NORMAL TEMPERATURE | 0020 C. |
| SUCTION FLOW | 3000 cc/min. |
| DELAYED DEPARTURE | 0000 min. |
| ALARM DURATION | 0030 sec. |
| WITHDRAWAL DURATION | 0010 min. |
| REGULAR BREAK | 0001 min. |
| WITHDRAWAL START | 09/01/18 - 16:10 |
| WITHDRAWAL STOP | 09/01/18 - 16:10 |
| ACTUAL DURATION | 0010 min. |
| ALARM DURATION | 0002 sec. |
| START TEMPERATURE | 20 C. |
| END TEMPERATURE | 20 C. |
| AVVERAGE TEMPERATURE | 20 C. |
| ASPIRATED VOLUME | 30000 cc. |
| NORN. VOLUME | 30000 cc. |
| WITHDRAWAL ERROR | 0 % |
| CORRECT WITHDRAWAL END | |