



INDUSTRIAL HYGIENE

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



CARE FOR THE
ENVIRONMENT



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.



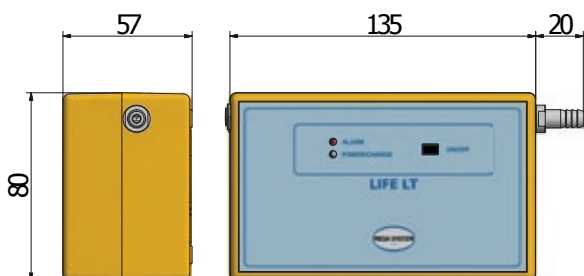
MAIN FEATURES

- 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.
- The LIFE XMF Hi model is equipped with a MASS FLOW control device allowing the sampling flow rate to be set via keyboard input, without external calibration accessories (flowmeter). Up to 10 flow calibration curves may be recorded and operator identifiers can be set and stored.
- The 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 and LIFE XMF Hi models, this time is summed and recorded. The error percentage is calculated according to the set sampling time and the time actually taken.
- In the 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.



LIFE SERIES

DIMENSIONS



```

*** LIFE XP ***
S/N 0000 00/0000 GR000000 SW 0.0

PRESS.BAROMETRICA 1013 hPa
TEMPERATURA NORM. 0020 C.
FLUSSO ASPIRAZIONE 3000 cc/min.
RITARDO PARTENZA 0000 min.
DURATA ALLARME 0030 sec.
DURATA prelievo 0010 min.
INTERVALLO REG. 0001 min.
START PRELIEVO 09/01/18 - 16:10
STOP PRELIEVO 09/01/18 - 16:20
DURATA EFFETTIVA 0010 min.
DURATA ALLARME 0002 sec.
TEMP. INIZIO 20 C.
TEMP. FINE 20 C.
TEMP. MEDIA 20 C.
VOLUME ASPIRATO 30000 cc.
VOLUME NORN. 30000 cc.
ERRORE PRELIEVO 0 %
FINE PRELIEVO CORRETTO
    
```

TECHNICAL SPECIFICATIONS

MODEL	LIFE LT	LIFE XP
■ Performance		
Type of pump	Membrane - dual head 8 l/min	
Operating range with in-line captator	20 cc/min ÷ 6 L/min	
Accuracy	2%	
■ Interface, Data Archiving		
Display	-	Alphanumeric LCD (16x2)
Keyboard	-	✓
Interface	-	RS232 input (Requires dedicated cable, optional)
■ Environmental Conditions		
Working Temperature Range	-10 °C ÷ 45 °C 95% UR	
■ Energy		
Power	Internal rechargeable batteries that guarantee high autonomy, free of memory effect	
Autonomy	More than 8 hours with MCE Ø 25 mm – 0,8 µm 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.		

CHARACTERISTIC CURVE OF THE PUMP

