



EZ-SAM

Motorized Sampling Hand Pump

USER MANUAL



1. Purpose

This manual provides the essential usage guidelines for the Lubrettec EZ-SAM motorized sampling hand pump, including precautions related to oil contact time, pump position, and sampling volume. Follow these instructions to ensure safe operation, representative oil samples, and a long service life for the pump.

2. Applicable Fluids

- Lubricants (oils) — applicable viscosity range 1 cSt up to above 680 cSt, depending on oil temperature.

3. Important Operating Limits

3.1 Oil Contact Time

- Brief oil contact during normal sampling is not an issue.
- **Continuous oil contact for more than 1 hour may cause damage to internal pump components.**
- **Do not leave oil inside the pump after sampling.**

3.2 Pump Position

- EZ-SAM must always be used in an upright (vertical) position.
- **Operating the pump sideways may allow oil to enter the pump body and cause malfunction.**

4. Sampling Volume Guidelines

- Prevent overflow during sampling.
- Fill the sample bottle to only 60–70% of its capacity.
- It is recommended to release the vacuum when the bottle is approximately half full.
- **Overfilling may cause oil to be drawn into the pump.**

5. Sampling Procedure (Summary)

1. Keep the pump upright.
2. Start sampling.
3. Stop sampling and release the vacuum when the bottle reaches about 50%.
4. Do not exceed a 60–70% bottle fill level.
5. Turn off the pump after sampling.

6. Sampling Methods

6.1 Vacuum Suction Method

The EZ-SAM collects the oil sample using its integrated, electric-motor-driven vacuum pump. This method prevents contamination of the oil sample provided the hose is sufficiently flushed before sampling.

6.2 Valve / Port Sampling Method

The sample can also be collected from valves (general valves and mininess, etc.) or ports by touching the sample bottle to the valve/port, or by attaching a tube to the mininess connection if there is sufficient line pressure. Collecting from a mininess connection reduces the risk of contamination compared to an open valve or port.

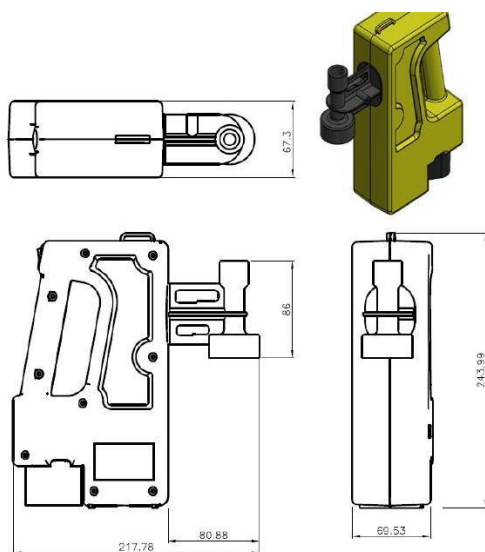
7. Maintenance & Recommendations

- Do not allow oil to remain inside the pump for extended periods.
- Clean the external surfaces of the pump after each use.
- Recharge the battery fully before extended use (charging time below 3.5 hours from empty).
- Store the pump upright, with the battery removed if not used for a longer period.

8. Disclaimer

Damage caused by improper operation, overfilling, prolonged oil contact, or incorrect pump position is not covered under standard warranty.

9. Specification



Item	Specification
Size	(W) 216 mm x (D) 67.5 mm x (H) 243 mm
Weight	700 g / 875 g (including battery)
Power	Rechargeable battery (removable)
Charging input power	12.6 VDC 1 A (Input power: 100–240 V)
Battery capacity	2500 mAh
Charging time	Below 3.5 hours (fully discharged)
Battery life	3 hours (continuous use, no load)
Operating temperature	Ambient: 75 °C — Fluid: non-contact, varies with sample bottle
Applicable viscosity	1 cSt ~ above 680 cSt (depending on oil temperature)
Pumping capacity	100 ml / 2–4 sec at 32 cSt @ 40 °C
Sample bottle neck size	Ø38 mm (other sizes require a separate adapter)
Tube mounting specification	OD Ø8 ~ Ø10 mm
Material	Body: ABS Bottle joint: PA6
EZ-SAM code	LT-BOSP038

10. Composition

Basic components

Basic components (included)	Qty
EZ-SAM pump body	1 pc

Basic components (included)	Qty
Rechargeable battery (initial installation)	1 pc
Transparent hose, Ø8 mm, 500 mm	1 pc
Battery charger (100–240 V)	1 pc

Accessories & spare parts (order via Lubrettec)

Optional accessories	Lubrettec code
EZ-SAM pump (pump body only)	LT-BOSP038PMP
Extra / spare battery, 12 V	LT-BOSP038 B
Battery charger (100–240 V)	LT-BOSP038BC
Sampling hose, LDPE 6/8	OA-PE1103
Sampling hose, LDPE 4/6	OA-PE1101
Sample bottle, 100 ml	OA-PE1216
Sample bottle, 250 ml	OA-PE1218
Bottle neck adaptor (standard Ø38 mm, others available)	on request
Shoulder strap	on request

Contact Lubrettec for pricing, availability, and other bottle-neck adaptor sizes.

11. Ordering & Contact

Lubrettec bv

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