



- Number of samples: Single event sampler.
- Power: 24 user replaceable "D" cell alkaline batteries.

#### **Deployment:**

- Specially designed cable clamps facilitate fast and easy attachment to an oceanographic wire for deployment.
- Non-volatile memory stores critical deployment data.

#### **Options:**

- Deep model available with 7,000 m rated housing.
- Standard radial filter holder or vertical intake filter holder (as used in GEOTRACES studies).
- Filter holder types include: multiple tiers, cartridge style, 293mm style and zooplankton style (for filter holder option details see <u>WTS-LV</u> <u>Filter Holder Specifications chart</u>).
- For more information about this sampler, see the <u>WTS-LV</u> pages at mclanelabs.com.

# WTS-LV - Standard Model

#### **Application:**

The Standard Large Volume Water Transfer System (WTS-LV) is a large volume, single-event sampler that collects suspended and dissolved particulate samples *in situ*. Ambient water is drawn through a modular filter holder onto a 142 mm membrane without passing through the pump. Standard 2-tier filter holder provides pre-filtering and size fractioning. Other filter holder options are available. Collection targets include chlorophyll maximum, particulate trace metals, and phytoplankton.

#### Features:

Different flow rates and filter porosity support a range of specimen collection (pump head must be compatible with filter material, see <u>WTS-LV Filter Types and Recommended Pump Heads chart</u>).

Flow is regulated by user-defined values for total volume, flow rate, and sample collection time. Sampling can be programmed to start at a scheduled time or begin with a countdown delay. Triggered countdown start synchronizes multiple samplers.

Dynamic pump speed algorithm adjusts to protect the sample as material accumulates on the filter. Mechanical flow meter confirms total volume pumped per deployment.

#### Pump options:

LV08 Flow rate\* 1-8 liters/min Max volume 5,000 liters (10 Ahr battery) Filter type GF/F®, QMA® or other membrane or mesh filters \* Based on filtering clean water. Field results will vary depending on filter type and particulate load.

### DIMENSIONS Height: 69 cm (27 in) (STANDARD MODEL): Width: 36 cm (14 in) Length: 64 cm (25 in) WEIGHT (APPROX): In air: ~51 kg In water: ~34 kg **COLLECTOR:** Number of samples: Single event sampler Filter holder material: Black Acetal/142 mm diameter Cartridge: Cartridge or pleated filter **CONTROLLER:** Housing material: Aluminum, 6061-T6 hard coat anodized Power: 36 VDC Communications: USB, RS-232, RS-485 with optional added bulkhead connector **OPERATIONS:** Maximum depth: 5,500 m (7,000 m model is available) Battery: 24 user replaceable "D" cell alkaline batteries provides 10 Ahr Operating temperature: -4°C to 35°C FRAME: Material: Strong back with wire clamps /Type 316 electro polished stainless steel weldment

## **WTS-LV Standard Sampler Specifications**

**GRAPHICAL USER INTERFACE:** 

McLanePro: Custom McLane GUI eases event programming, data offload, and firmware updates.

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Specifications subject to change without notice • 04/24 • www.mclanelabs.com