



# FLOW HUNTER III

Process Instrumentation

## Ultrasonic Open Channel Flowmeter

- **Non-contact Ultrasonic Open Channel Flowmeter**
- **Advanced Microprocessor Technology with ECHO LOGIC**
- **Accuracy 0.25% of range or 6mm (whichever is greater)**
- **Displays Flow Rate, Totalizer, Head/Level, Graphic LCD**
- **Narrow ECHO PULSE with focusing face (Condensation Prevention)**



### **Ultrasonic OCM FLOWMETER Flow Hunter III & LXD-P Transducer**

The ECHO Flow Hunter III is a highly accurate Open Channel Flowmeter using the latest non-contact ultrasonic technology for measuring flow in all types of weirs and flumes. It uses the most advanced and unique "Transducer Focusing Face" technology that helps produce a narrow ECHO PULSE and prevents condensation build-up. It is a strong, stable and reliable flow measurement solution.

It has been specifically designed to measure influent and effluent water flow from all types of municipal and industrial treatment plants to ensure regulatory compliance. It comes standard in a rugged NEMA 4X, Wall-mount enclosure with a UV Protected clear lid for years of maintenance-free operation.

Big in functionality and small on price, the Flow Hunter III is perfect for the toughest applications. We offer a standard 60 day Performance Guarantee and 1 year warranty. We will prove our technology and high quality product is the best in the market and completely risk free to the customer. A totally flexible solution!

### **Advantages**

- **Non-contact Ultrasonic Flow Measurement**
- **Compatible with most Flumes and Weirs**
- **Two 4-20 mA analog outputs**
- **RS232 standard, RS485 Modbus RTU optional**
- **Three Relays for alarm or pulse output**
- **Available for Metric or Imperial Units**



**LXD-P 04  
Transducer**

# Technical Specifications: FLOW HUNTER III



## General

**Measuring principle** : Ultrasonic OCM Flow Measurement  
**Range** : 0.3... 4m (1... 13 ft)  
**Accuracy** : 0.25% of measured range or 6m (whichever is greater)  
**Resolution** : 1 mm

## Transmitter

**Enclosure** : Wall-mount housing  
**Protection rating** : NEMA 4X (IP 65 according EN60529)  
**Operating temp.** : -4 ...140 °F (-20 ... 60 °C)  
**Housing material** : Polycarbonate  
**Channels** : 1  
**Power supply** : 100 ... 240 VAC 50/60 Hz, 29VA (12W) (Optional 9 to 30 VDC, 8W max)  
**Display** : Flow rate, Totalizer, Head/ Level  
**Totalizer** : 999,999,999.99  
**Dimensions** : 6.5H x 9.8W x 3.7D inch (166W x 250H x 95D) mm  
**Data Logging** : USB Data Download  
**Weight** : Approx 4lbs (2 kg)  
**Damping Rate** : 0.1/min to 100m/min (user-adjustable)  
**Temp Comp.** : Fully Temperature Compensated  
**Approvals** : CuL Approved, CE

## Output

**Analog Output** : Two 4-20mA (Flow & Head), max 750Ω  
**Serial interface** : RS 232, RS 485 ModBus (optional)  
**Digital (Relay) Pulse** : 3 SPDT Relays rated 250VAC @ 5A  
 : Flow rate value / pulse

## Input

**External Temp.** : External Temperature NTC, 10 KΩ

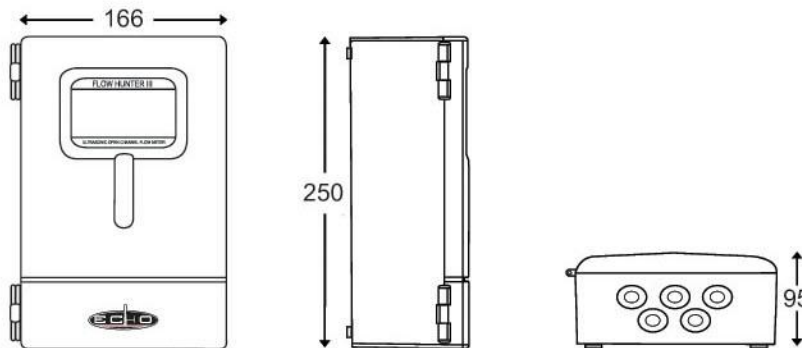
## Transducer

**LXD-P 04** : 0.3... 4m (1... 13 ft) range  
**Near Blanking** : 0.3m (0.98 ft)  
**Dimensions** : 2.6" dia x 4.2" ht (67mm dia x 107mm ht)  
**Mounting** : 1" NPT  
**Temperature** : -22 ...158°F (-30... 70° C)  
**Beam Angle** : 8° at -3dB  
**Approvals** : CuL, CE, Explosion Proof Pending  
**Material** : PVDF  
**Environment** : Nema 6P (IP68)  
**Cable** : 2 Conductor, Shielded (18 AWG) 33ft (10m), Maximum 1,500 ft

## General

**Enclosures** : Heated & Cooled- Thermostat Controlled  
**Mounting** : SS Uni-strut Wall & Floor Mount Versions

## FLOW HUNTER III DIMENSIONS (mm)



## LXD-P TRANSDUCER DIMENSIONS (mm)

