



Process Instrumentation

# LEVEL HUNTER II

## Ultrasonic Level Meter & Pump Controller

- **Noncontact ultrasonic level measurement for liquids and solids**
- **Advanced Microprocessor Technology with DSP Processing**
- **Measures Level up to 50 feet**
- **Controls & Alternates up to 4 Pumps (Lead/Lag Rotation)**
- **Ultra narrow ECHO pulse width with beam focusing transducer face (Condensation Prevention)**



**Ultrasonic Level Meter  
Level Hunter II & XDS Transducer**

The ECHO Level Hunter II is an advanced, low-cost ultrasonic level controller that utilizes the latest state-of-the-art technology to provide reliable measurement and control. High in functionality, the Level Hunter II offers non-contact measurement of liquids, slurries and solids. The versatile instrument with 4 programmable relays measures and displays level, distance, volume and mass.

The four buttons allow for easy programming using a quick setup method. No manual needed. ECHO Process Instrumentation has eliminated the need for complex parameter programming. It uses a simple question and answer sequence which allows the Level Hunter II to be programmed in minutes. It is the ideal instrument for non-contact level measurement and alarm control.

Big in functionality and small on price, the Level Hunter II 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!



**XDS  
Transducer**

### Advantages

- **Non-contact Ultrasonic Level Measurement**
- **Measures liquid and solid level up to 50 feet**
- **Pump Station Controller for up to 4 Pumps**
- **RS232 standard, RS485 optional**
- **High, HiHi, Low, LoLo Alarm Relays**
- **0.25% Accuracy of Measured Range or 6mm (whichever is greater)**

# Technical Specifications: LEVEL HUNTER II TRANSDUCERS: XDS 08, 12, 15



## General

Measuring principle : Ultrasonic Level Measurement  
 Range : Transducer Dependent (up to 50')  
 Accuracy : 0.25% of measured range or 6m (whichever is greater)  
 Resolution : 1 mm

## Transmitter

Enclosure : Wall mounted housing  
 Protection rating : NEMA 4X (IP 66 according EN60529)  
 Operating temp. : -4 ...140 °F (-20 ... 60 °C)  
 Housing material : Plastic, ABS, Polycarbonate  
 (transparent front door only)  
 Channels : 1  
 Power supply : 100 ... 240 VAC 50/60 Hz  
 (Optional 24 VDC)  
 Display : 2 Line, 40 Characters LCD  
 Dimensions : 7.3 H x 9.4 W x 4.2 D inch  
 (185 H x 240 W x 107 D mm)  
 Weight : Approx. 5 lbs (2.3 kg)  
 Power consumption : < 5 W without relays  
 Damping Rate : 0.1/min to 100m/min  
 Temp Comp. : Fully Temperature Compensated  
 Languages : English

## Output

Analog Output : 4-20 mA, max 600Ω  
 Serial interface : RS 232, RS 485 (optional)  
 Digital (Relay) : 4 SPDT Relays rated 250VAC @ 5A  
 Relay Function : Alarm, Fixed or Alternating Pump Control

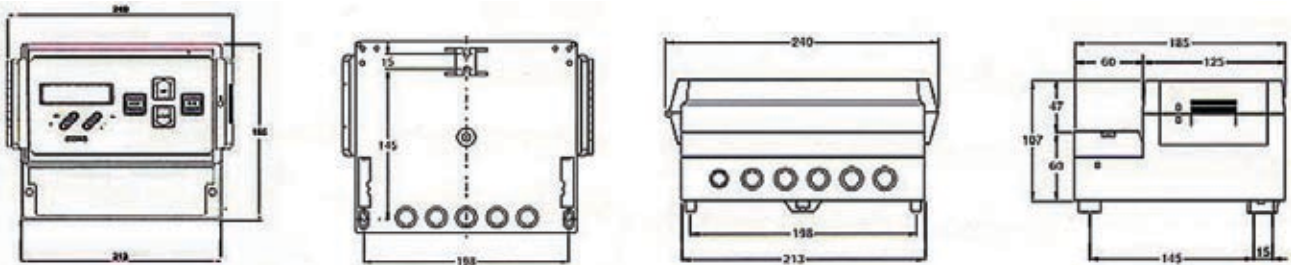
## Transducers

XDS08 : 0.35 - 8m (1.1 - 26.2 ft) range  
 Dimensions : 2.6" dia x 5.1" ht (67mm d x 131mm ht)  
 Beam Angle : 8° at -3dB  
 Explosion Proof : EEX d II T6  
 XDS12 : 0.5 - 12m (1.6 - 40 ft) range  
 Dimensions : 3.3" dia x 6.0" ht (84mm d x 152mm ht)  
 Beam Angle : 8° at -3dB  
 Explosion Proof : EEX d II T6  
 XDS15 : 0.5 - 15m (1.6 - 50 ft) range  
 Dimensions : 4.5" dia x 6.8" ht (115mm d x 173mm ht)  
 Beam Angle : 8° at -3dB  
 Explosion Proof : EEX d II T6

## Options

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

## LEVEL HUNTER II DIMENSIONS (mm)



## XDS TRANSDUCER DIMENSIONS (mm)

