

DLT 2.0 Differential Level Transmitter

**Measures Level, Differential Level and Open Channel Flow
Includes Two Non-contacting Ultrasonic Sensors**

*for Mechanical
Barscreens*

Greyline DLT 2.0

Displays, Transmits
and Controls
Differential Level
and more...

Simple 5-key Calibration
Three 4-20mA Outputs
Two Control Relays

Level and Flume Calibration

Displays Up and Downstream Level

Measures Open Channel Flow

Monitors Parshall Flume Submergence



Differential Level and Control plus Open Channel Flow Monitoring with Two Non-Contacting Ultrasonic Sensors

Versatile, Easy to Use

One Instrument Does the Work of Three

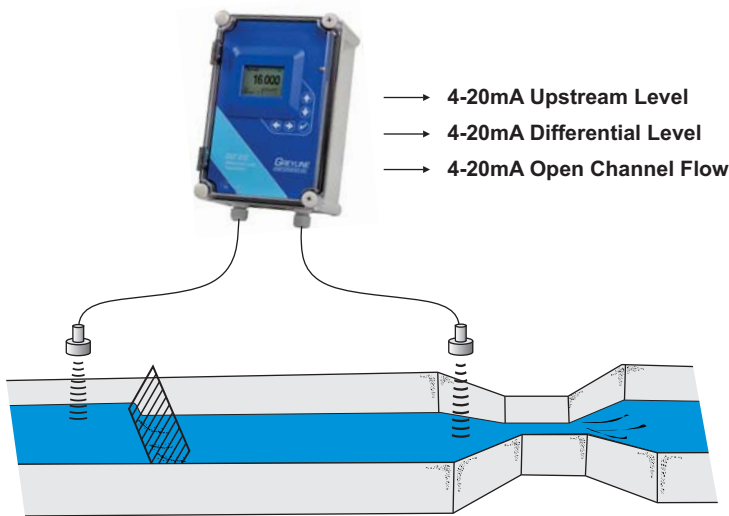
Install one Sensor on each side of a barscreen to continuously monitor, transmit and control level. Use the built-in control relays or 4-20mA outputs to automatically activate the barscreen rake at preset levels.

The DLT 2.0 is a simple solution for barscreen level control at wastewater treatment plant headworks, pump stations and combined sewer systems. It includes two non-contacting ultrasonic sensors to measure level. With sensors positioned above a channel, up and downstream from the barscreen, the DLT 2.0 can display and transmit differential level. The downstream sensor can also be installed above a flume or weir to measure and totalize open channel flow.

Three 4-20mA outputs are configured to transmit upstream level, downstream level (or flow) and differential level. Built-in relays can be calibrated for level control, differential level control or open channel flow.

Multi-function Level Transmitter

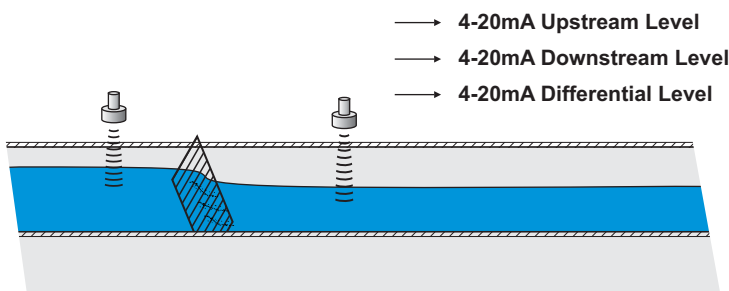
Does Two or Three things at once...
so You don't have to



Barscreen Differential plus Open Channel Flow

Reduce costs and simplify instrumentation at treatment plant headworks. With a barscreen upstream from a flume, the DLT2.0 can measure both differential level and flow through the flume with just two ultrasonic sensors and one electronics enclosure.

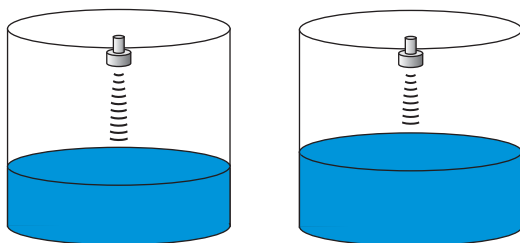
The DLT 2.0 includes three 4-20mA outputs. It displays flow rate and total flow through the flume, plus upstream level and differential level.



Barscreen Differential

Monitor, transmit and control barscreen level with one instrument. Ultrasonic sensors mount up and downstream from a barscreen. Use the isolated 4-20mA outputs or control relays to activate the screen's cleaning rake at preset levels or differential level.

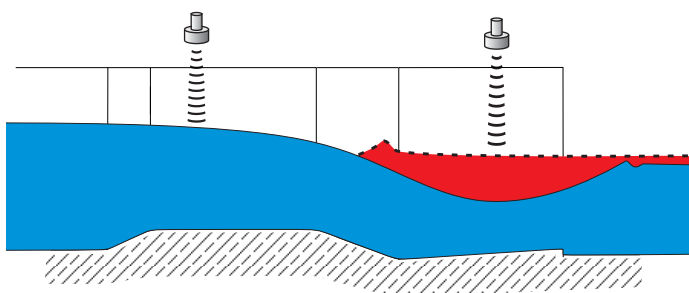
- 4-20mA Tank 1 - Level/Volume
→ 4-20mA Tank 2 - Level/Volume



Two-Tank Inventory

Monitor level in two tanks with one instrument. The DLT 2.0 will alternate display of level in both tanks plus transmit 4-20mA outputs. Use the built-in relays to activate alarms or level controls.

Calibration is easy with the DLT's built-in keypad and menu system.



Submerged Flow Alarm

Parshall flumes can provide accurate flow measurement with the discharge submerged up to 70% (depending on flume size). Use the DLT 2.0 to measure flow through the flume and to activate an alarm when discharge level reaches critical submergence level.

DLT 2.0 Specifications

General Specifications

Electronics Enclosure:	Watertight and dust tight NEMA4X (IP 66) polycarbonate with clear, shatterproof cover
Accuracy:	±0.25% of Range or 2 mm (0.08") whichever is greater, Repeatability and Linearity: ±0.1%
Display:	White, backlit matrix - displays upstream, downstream and differential level, open channel flow and totalizer, relay states, operating mode and calibration menu
Programming:	built-in 5-key calibrator with English, French or Spanish language selection
Power Input:	100-240VAC 50-60Hz (see Options), 3 Watts maximum (with standard features)
Outputs:	Three Isolated 4-20mA (upstream and downstream level (or open channel flow) and differential level, 1000 ohm load maximum.
Control Relays:	Qty 2, rated 5 amp SPDT, programmable for level control, differential control, or flow proportional pulse
Electrical Surge Protection:	Sensor, 4-20mA outputs and AC power input
Operating Temp. (electronics):	-5° to 140°F (-20° to 60°C)
Approximate Shipping Weight:	15 lbs. (6.8 kg)

Greyline DLT 2.0 Differential Level Transmitter

Sensor Specifications

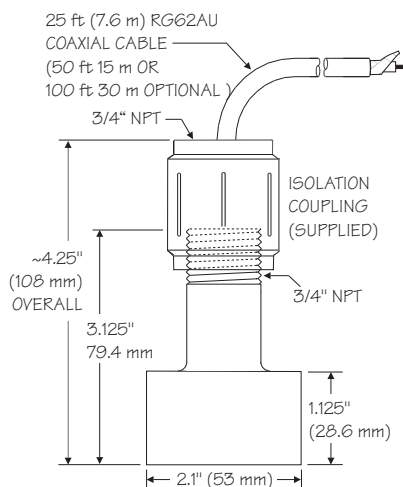
Maximum Range:	15 ft (4.57 m) with standard PZ15 sensor
Deadband (Blanking):	Programmable, Minimum 8 in (203.2 mm)
Beam Angle:	8°
Operating Frequency:	92 KHz
Exposed Materials:	PVC
Operating Temperature:	-40° to 150°F (-40° to 65°C)
Temperature Compensation:	Temperature probe inside level sensor for high accuracy in changing temperatures
Sensor Cable:	RG62AU coaxial, 25 ft (7.6 m) standard length (See Options)

Includes Two PZ15 Ultrasonic Sensors

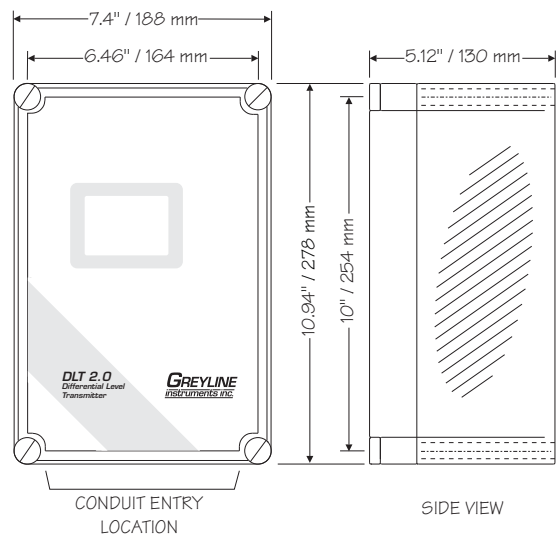
Options

Sensors:	32 ft. (10 m) measurement range / Intrinsically Safe models
Sensor Cable:	50 ft. (15 m) or 100 ft (30 m) RG62AU coaxial continuous from Sensor, or splice up to 500 ft (150 m) with optional JB Watertight NEMA4 steel with connection terminal strip
Power Input:	9-32 VDC
Extra Control Relays:	4 additional (6 total) rated 5 ampere SPDT
Data Logger:	2 million point logger with USB output and Windows software – 3 channel logging (A & B sensors plus Differential or Open Channel flow
Enclosure Heater:	Thermostatically controlled - recommended for temperatures below 32°F (0°C)
Intrinsic Safety Barriers:	For Sensor mounting in Class I,II,III, Div. I,II, Groups C,D,E,F,G hazardous locations
Sensor Mounting Stand:	Adjustable, includes galvanized steel pipe, flanges, fittings and hardware
Sunscreens:	Sensor sunscreen and enclosure sunscreen for outdoor installations

Dimensions



PZ15 SENSOR



ENCLOSURE