



This low cost, two-wire transmitter determines the liquid level by measuring the liquid head pressure. It is very similar to a standard bubbler system, but with an important advantage; the Leveldata[™] does not require a compressed air supply.

The head pressure of the liquid is sensed at the reservoir located at the bottom of the system and transmitted up the impulse tube. The impulse tube, in turn, transmits this pressure up to the differential pressure transducer (DP) located inside the top-mounted enclosure. This pressure is converted by the DP transducer and control electronics into a 4-20mA signal for display to a PLC or a process meter. The Leveldata[™] offers many other advantages, including: static pressure compensation, temperature compensations, and intrinsic safety.

Features and Benefits

Does Not Require a Compressed Air Supply

- True DP level measurement
- Automatic compensation for pressurized vessels
- Non-fouling

3/4" NPT Mount

Low installation cost

Rigid 316 S.S. Impulse Tube

Rugged and reliable

Easy Set-up

Simple zero (null) and span adjustment

How to Order

Vessels at Atmosphere

Description	Order Number
0-4" H ₂ O Range	GAG200010*
0-28" H ₂ O Range	GAG200006*
0-32" H ₂ O 55 Gallon Drum	GAG200004
0-140" H ₂ O Range	GAG200000*
0-420" H ₂ O Range	GAG200001*

Vessels at Atmosphere

Description	Order Number
0-28" H ₂ O DP Range	GAG200007*
0-32" H ₂ O DP, 55 Gallon Drum	GAG200005
0-140" H ₂ O DP Range	GAG200002*
0-420" H ₂ O DP Range	GAG200003*

*Includes transmitter and reservoir only

All units except the drum version require the purchase of the impulse tube separately. Alternately, a 1/8" schedule 80 pipe (threaded at each end) may be purchased locally (316 S.S. recommended).

Electronics

Input:	24 VDC ($\pm 15\%$)
Output:	4-20mA into 600 ohms maximum @ 24 VDC (impedance increases with voltage)
Accuracy:	$\pm 1.0\%$ of calibrated span (combined linearity, hysteresis, stability) between 0° F to 150° F (-18° C to 66° C)
Turndown:	2:1 applies to 0-28" and 0-32" ranges 5:1 applies to all other ranges
Approvals:	Factory Mutual (FM) approved, Intrinsically Safe for Class 1, Division 1, Groups C and D, outdoors Underwriters Laboratories (UL) General Purpose

Mechanical

Enclosure:	NEMA 4X aluminum with corrosion resistant polyester coating
Conduit Connection:	3/4" NPT
Ranges:	0-4", 0-28", 0-140", or 0-420" H ₂ O
Process Connection:	3/4" NPT, 316 stainless steel
Rigid Impulse Tube:	1/8" Schedule 80, 316 S.S. – standard on drum version (customer supplied on others as required)
Reservoir:	7/8" 316 S.S. tube (field modified per application) included

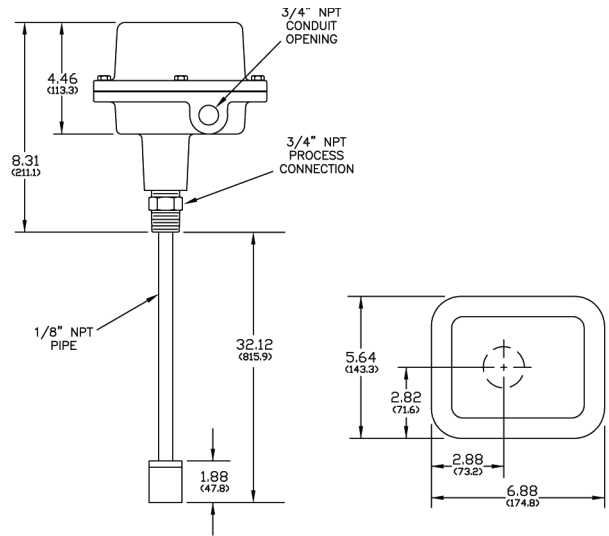
Environmental

Temperature:	-40° F to 120° F (-40° C to 49° C)
Humidity:	0-99% non-condensing
Pressure:	2 psi normal; 10 psi maximum (pressurized versions)

Notes

- Note 1: Assembled unit must be lowered vertically into liquid.
- Note 2: Ranges specified are based upon water (SG=1.0). Fluids with a higher or lower specific gravity (SG) will decrease or increase range, respectively (in proportion to the SG change).
- Note 3: All fittings to be sealed with Loctite #565/#567.
- Note 4: Leveldata™ will operate properly with all process displays having a transmitter excitation supply and PLC/DCS's accepting 4-20mA inputs.

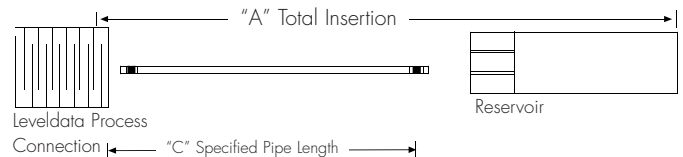
Dimensions



DRUM VERSION

Rigid Impulse Tube

Part Number	Description
GAG 220-012	1/8" 316 S.S., Schedule 80 pipe, threaded both ends.
GAG 230-003	1/8" 316 S.S. coupling. Required for lengths over 20' (6,100 mm) only.



To order Precut and Threaded Rigid Impulse Tube

(Pipe) for the Leveldata™, use the following formula:

"A" Total insertion required, in inches (or mm)

"C" Length to be specified when ordering, in inches (or mm)

"C" = A - A/24 + 0.5 inches (or 12mm)

Example: "A" (Insertion Length) = 100 inches
 "C" (Tube Length) = 100 - (100/24) + 0.5
 "C" = 96.33 inches



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