

# MODEL 565 HEAD PRESSURE TYPE, LARGE DIAPHRAGM, SUBMERGED LEVEL TRANSMITTER

TS565

- FOR SEWAGE AND SLURRY -

## FEATURES

- Flexible Isolator for Wastewater and Slurries
- Large, Rugged BUNA-N® Rubber Diaphragm
- Supported By Rigid Pipe or Flexible Cable
- 4-20 mADC, 2 Wire, Intrinsically Safe
- 316 Stainless Steel Body
- PVC or TEF Cable Jacket
- Zero & Span Pots for Field Recalibration
- Spark & Voltage Surge Protection
- Cable Junction Box with Isolation Bladder
- Reliable, No Maintenance

## TYPICAL APPLICATIONS

Sewage Lift Stations  
Aerobic Digesters  
Retention Basins  
Alum Tanks  
Wastewater Sumps

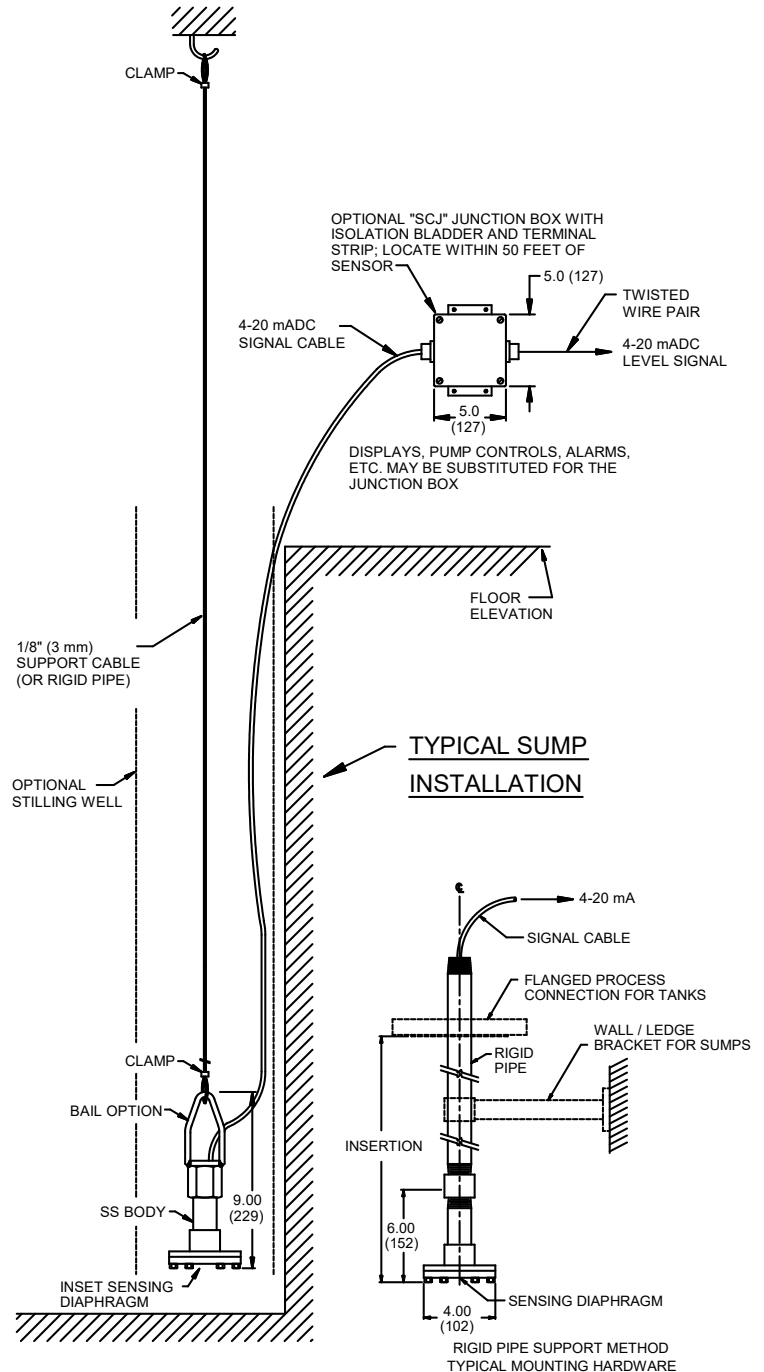
Lime Slurry  
Drilling Mud  
Latex Paint  
Catch tanks  
Oil Field Slop Tanks

## DESCRIPTION

The Model 565 Level Transmitter is a completely self-contained head pressure type level transmitter. The electronics and calibration adjustments are contained inside the body with the strain gage sensor. It is of modular construction and is field repairable. The cable is sealed to the transmitter body. When installed in a lift station, sump, basin, or other containment, the strain gage sensor detects the liquid level as a function of the height and density of the liquid above it. Because the diaphragm is completely open to the product being measured, it cannot be plugged and rendered inoperable by liquids with high solids content such as sewage, wastewater, and slurries.

The diaphragm is fabricated from tough rubber and is coupled to the strain gage through a non-toxic glycerin fill. The abrasion resistant face has superior resistance to damage from gravel and other moving solids. Its large 3" active size and its smooth outer surface make it extremely durable and reliable in harsh services.

A vent tube connected directly to the sensor automatically compensates for changes in atmospheric pressure. An optional isolation bladder prevents condensation in the vent tube. No refilling or maintenance of the bladder is required.



**Delta Controls**  
CORPORATION

# MODEL NUMBERING SYSTEM

## LARGE DIAPHRAGM SUBMERGED LEVEL TRANSMITTER

BASIC TYPE	MOUNTING CONNECTION	RANGE & SENSOR	FEET OF CABLE	OPTIONS
MODEL EXAMPLE 565P	20P	G4Y	20V	AA

BASIC TYPE	
M/N	BODY MATERIAL
565Y	316 SS & BUNA "N"
565Z	OTHER
565P	PVC & BUNA "N"

FEET OF CABLE	
M/N	DESCRIPTION 220°F (105°C) SERVICE
*V	PVC OUTER JACKET
*R	TEFZEL OUTER JACKET

REPLACE \* WITH NUMBER OF FEET REQUIRED

MOUNTING CONNECTION	
M/N	DESCRIPTION
*P	3/4" MNPT FOR PIPE SUPPORT
*C	BAIL HANGER WITH 20 FEET OF CABLE

REPLACE \* WITH REQUIRED FT. OF CABLE. ADD PER FT. OVER 25 FT.

\* ADD \$1.04 PER FT. FOR ADDITIONAL CABLE

OPTIONS	
M/N	DESCRIPTION
AA	NONE
SCJ	HOUSING WITH VENT TUBE, MOISTURE BLADDER, WITH TERMINALS
SCJ/328	SAME AS ABOVE EXCEPT INCLUDES 328 3 1/2 DIGIT LCD
VBKT	WALL MOUNTING BRACKET-VERTICAL
HBKT	LEDGE MOUNTING BRACKET-HORIZONTAL
4"/150RS	4"/150# FLANGE ADDED TO SUPPORT PIPE, STEEL WILL ENTER A 4" SCH 40 PIPE NOZZLE
WLA	WALL / LEDGE SUPPORT BRACKET FOR USER'S 1" SUPPORT PIPE
FLA	FLANGED PROCESS CONNECTION ADAPTOR FOR USE WITH USER'S 1" SUPPORT PIPE
ZZ	OTHER CONFIGURATIONS, MOUNTING, ETC.

RANGE & SENSOR		
M/N	Δ FULL SCALE RANGE (H <sub>2</sub> O)	
	FEET	METERS
G1Y	3.5	1.0
G2Y	7.0	2.0
G3Y	17.5	5.0
G4Y	35.0	10.0
G5Y	70.0	20.0
G6Y	125.0	40.0

Δ HIGHER RANGES AVAILABLE; C/F

### MODEL 565 SPECIFICATIONS

**Technology:** Silicon strain gage

**Supply Power:** 13 to 35 VDC, 2 wire loop powered

**Output Signal:** 4-20 mA DC isolated, Intrinsically Safe

**Loop Impedance:** 550 ohms at 24 VDC

1100 ohms at 35 VDC

**Adjustments:** Span from 30% to 100% of sensor range.

Zero to 30% suppression basic; non-interactive

**Temperature Range:** -20°F to +180°F (Process)

30°F to +130°F (Compensated)

**Accuracy:** ±0.25% F.S. or better

**Thermal Error:** ±0.02% F.S. /°F maximum

**Barometric Effect:** None

**Over Pressure:** 2x rated pressure range; 35 PSI minimum

#### Options Available:

Large LCD; readout in engineering units

DC Power Supply for loop and alarms in junction box

Alarm Module (1 or 2); SPDT, 5 amp contacts

Model 352, 354, 358, or 360 pump controller



Transmitter Body

Made in the USA by Delta Controls Corp



**Engineered  
Reliability**

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