

MODEL 562 HEAD PRESSURE LEVEL TRANSMITTER TOP INSERTED SENSOR TYPE

TS562

FEATURES

- Two wire loop powered 4-20 mADC signal
- Suitable for clean or dirty liquids with solids
- Integral or remoted electronic module
- Oil filled sensor isolating diaphragm
- Ranges from 12 inches to 36 feet H₂O
- Zero & span pots for field recalibration
- Optional LCD display and alarm
- Optional 20-4 mADC reverse calibration
- Optional isolation bladder for vent tube
- Optional second loop for liquid temperature
- Technology used does not require a ground reference rod when used on concrete, plastic or fiberglass vessels
- Not affected by product coating, or algae buildup
- Maintenance free operation

DESCRIPTION

The Model 562 level transmitter consists of a potted electronic module and a pressure sensing probe. The probe consists of a head pressure sensor protected by a stainless steel body and supported by a 3/4" size pipe. The electronics housing can be mounted directly on the probe head. It can also be remoted for convenience or safety. The user normally supplies the pipe. Process fittings and/or mounting adapters can be supplied by Delta Controls or by the user.

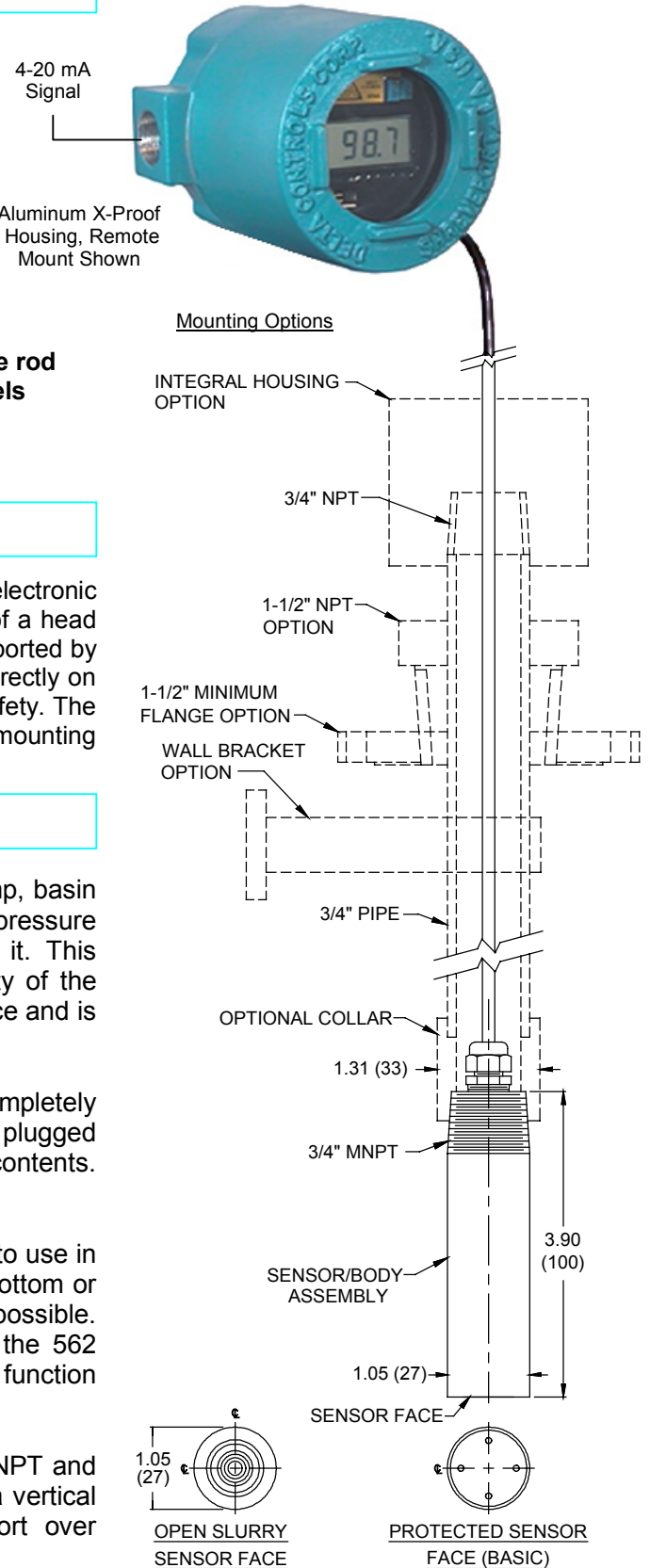
TYPICAL INSTALLATIONS

The Model 562 is installed near the bottom of a tank, sump, basin or other containment. The strain gage sensor detects the pressure exerted on it by the water or other liquid surrounding it. This pressure is linearly proportional to the height and density of the liquid above the sensor. The basic unit has a protected face and is suitable for clean liquids.

The optional sludge face allows the diaphragm to be completely open to the liquid being measured. The sensor cannot be plugged and rendered inoperable by liquids with high solids contents. Waste liquids and slurries are easily handled.

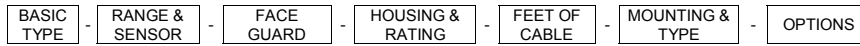
The top mounting feature of the Model 562 makes it easy to use in concrete basins, sumps and other containments where bottom or side mounting of a sensor would be difficult or impossible. Compared to a capacitance or radar probe transmitter, the 562 requires neither reference ground nor periodic cleaning to function accurately and reliably.

The 562's probe can be mounted using a wide range of NPT and flanged connections. It can also be supplied with either a vertical wall or a horizontal ledge mounting bracket for support over basins, open tanks, pits, and similar installations.



MODEL NUMBERING SYSTEM

LIQUID HEAD PRESSURE LEVEL TRANSMITTER



MODEL EXAMPLE 562Y - G4Y - P - 4XI - 12V - 1.5"MPST - AA

M/N	BODY MATERIAL
562Y	316 SS
562Z	OTHERS

M/N	FULL SCALE RANGE (H ₂ O)	
	FEET	METERS
G1 Y	3.5	1.0
G2 Y	7.0	2.0
G3 Y	17.5	5.0
G4 Y	35.0	10.0

316 SS, FOR HASTELLOY "C" - C/F

M/N	DESCRIPTION
P	PROTECTED, FOR CLEAN LIQUIDS
S	OPEN, FOR ENTRAINED SOLIDS

M/N	DESCRIPTION (ALL 4X)
4X*	ENVIRONMENT PROOF; 4X; S.S. TRIM; PVC; INTRINSICALLY SAFE, CLASSES 1 & 2, DIVISIONS 1 & 2, GROUPS ABCD, EFG
7W*	EXPLOSION PROOF; CLASSES 1 & 2; DIVISIONS 1 & 2; DIVISIONS BCD, EFG; 4X; ALUMINUM CONSTRUCTION
7T*	EXPROOF, SAME EXCEPT ALL 300 SS

* REPLACE * WITH "I" FOR INTERGRAL MOUNTED OR "R" FOR REMOTELY MOUNTED CONDUIT SUPPORTED HOUSING

M/N	JACKET MATERIAL	MAX TEMP
* V	PVC	160°F (70°C)
* P	TEFZEL	220°F (105°C)

↑ REPLACE * WITH FEET OF CABLE

M/N	DESCRIPTION
AA	NONE
328	DIRECT READING LCD DISPLAY
RT	LIQUID TEMPERATURE TRANSMITTER OVER A SECOND 4-20 mADC LOOP
SCI	VENT TUBE ISOLATION BLADDER
PSM	BRACKET FOR 2" PIPE STAND OR SURFACE MOUNTING HOUSING
TC	4-20 mADC ELECTRONIC SIGNAL DAMPENING; SELECTABLE 0.1 TO 22 SECONDS
CTV	STEM TO CABLE SEAL FOR REMOTED HOUSING, NYLON
TPC	TANK PRESSURE CORRECTOR, USED WHEN MEASURING LEVEL IN A PRESSURIZED TANK
RC	20-4 mADC REVERSED CALIBRATION
PS	3/4" PIPE MOUNTING STEM (SPECIFY LENGTH)
ZZ	OTHER CONFIGURATIONS

M/N	PROCESS CONN. & BRACKET DESCRIPTION
AA	NONE, FURNISHED BY USER
1.5" MPT*	MALE NPT WITH 3/4" HOUSING CONNECTION
■150R*	150# FLANGE WITH 3/4" HOUSING CONNECTION
VBKT	SUPPORT ARM BRACKET, VERTICAL WALL ATTACHMENT, STEEL
HBKT	DITTO, EXCEPT HORIZONTAL LEDGE
ZA	OTHER CONFIGURATIONS AND MATERIALS - ANSI, JIS, DIN, BP, ETC.

REPLACE * WITH "S" FOR STEEL OR "Y" FOR 316 S.S.
REPLACE ■ WITH 1-1/2" OR LARGER R.F. OR F.F. FLANGE SIZE

Made in USA by
Delta Controls Corp

SPECIFICATIONS

Technology: Silicon strain gage.
Output: 4-20 mADC isolated, Intrinsically Safe
Supply Power: 13 to 35 VDC, 2 wire loop powered
Loop Impedance: 550Ω @ 24 VDC, 1100Ω @ 35 VDC
Adjustments: Zero to 30% suppression basic; 80% optionally.
 Span from 30% to 100% of sensor range.
Calibration: Done in accordance with customer specifications.
 Note: Span and Zero offsets can be adjusted out and are not inherent in the design. Also, they are not interactive.
Protective Devices: Transient suppressors for voltage surge and spark protection are built-in.
Cable Jacket: PVC 120°F (70°C) basic, TEFZEL@ 200°F (105°C) optional
Temperature Range: -20 to +220°F (-30 to 105°C) Operating
 30 to +130°F (-1 to 55°C) Fully compensated
Accuracy: ±0.25% F.S. or better
Thermal Error: ±0.02% F.S. /°F maximum
Over Pressure: 2X Range (35 PSI min) without damage
Barometric Effect: None

NOTE - Use "TPC" Corrector for unvented or pressurized tanks and vessels.

OPTIONAL FEATURES

Condensation Protection: Isolation Bladder on vent tube
Indicator: Large LCD display (in engineering units)
DC Power Supply: 120 VAC to 24 VDC
Alarm Module(s): 5 amp SPDT outputs

LIQUID TEMPERATURE OPTION

A separate 2-wire 4-20 mADC loop transmitter can be included in the Model 562. A precision temperature sensor is included in the level sensor body. Range: Any 50 to 250°F span between -50 and +250°F (-45 to 120°C). Accuracy is ± 0.5°F (0.3°C).

THIRD PARTY APPROVALS

CSA (Canada); NRTL/C (USA)

ISO 9001 Quality System

Intrinsically Safe
Explosion Proof
Environment Proof

DELTA CONTROLS CORP
Engineered Sensors - For Difficult Services

585 Fortson Street
Shreveport, La. 71107 - USA



Voice: 318-424-8471
 Fax: 318-425-2421
 E-mail: delta@deltacnt.com
 Web Site: http://www.deltalevel.com