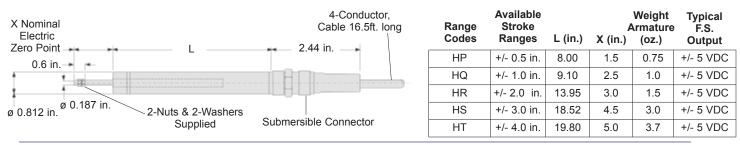
## Model DW7U DC-DC Submersible\* LVDT

Order Code AY250

- Submersible
- Stainless Steel
- +/- 0.5 to +/- 4.0 in. Range



## Dimensions



## Wiring Codes

#### Dual Power Supply

Brown	(+) Supply (+10 to +20 VDC)
Dive	() $O_{\text{transley}}$ ( $10 \text{ transley}$ $O_{\text{transley}}$

- Blue (-) Supply (-10 to -20 VDC)
- Black (-) Output Common/ Supply Return White (+) Output +/-5 VDC

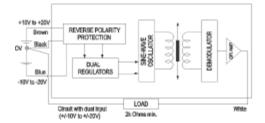
(min. 2k Ohm across Black and White)

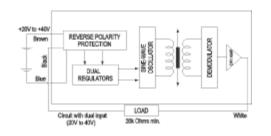
Reverse polarity protected with voltage regulator. Cable shield is not connected to transducer.

#### Single Power Supply

Brown (+) Supply (+20 to +40 VDC) Blue Supply Return Black (-) Output White (+) Output +/-5 VDC (min. Ohm across Black and White)

Reverse polarity protected with voltage regulator. Cable shield is not connected to transducer. Either black or blue must float. If both are grounded or connected together, the unit will be destroyed.



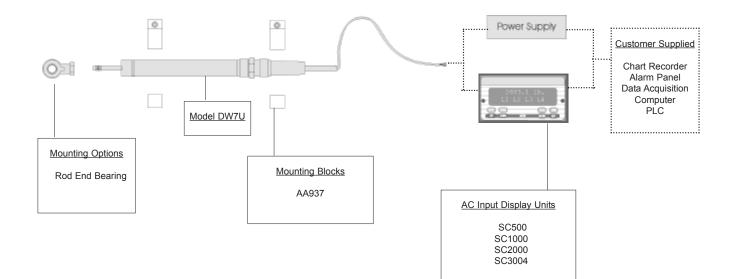


Performance	Stroke Range+/- 0.5 to 4.0 in.		
Fenumance	Non-Linearity (max.)+/- 0.25% Full Scale		
	Output SensitivitySee table above		
	Noise30 mV p-p		
Environmental	Temperature, Operating40° to 158°F		
	Temperature, Effect		
	Zero (max.)0.005% Full Scale/°F		
	Span (max.)0.015% Full Scale/°F		
	Pressure Rating, Std150 psi, up to 3,000 psi with cable options		
Electrical	Element TypeDC-DC LVDT		
	Input Supply (acceptable)+/- 10 to 20 VDC unregulated (45 mA max.)		
	or 20 to 40 VDC unregulated (45 mA max.)		
	Electrical TerminationSubmersible mating connector with 16.5' cable		
Mechanical	MaterialStainless Steel		
	Probe MaterialStainless Steel		
	Armature TypeFree Unguided		
	Probe ThreadM5 x 0.8"		
	Spring Force (max.)Not Applicable		

\*Not recommended for salt water use. Consult Factory for saltwater submersible applications.

1-888-282-9891

## Typical System Diagram



### Options

	Fast Track Delivery	Built to Order
Stroke Ranges	+/- 0.5 to 4.0 in.	
Electrical Termination	Submersible mating connector with 16.5' cable	OPT1. No connector or cable, terminated with soldier pins
Electrical Cable Orientation		OPT7. Radial outlet sub- mersible connector with 16.5' cable
Improved Linearity	L10. +/- 0.1% max. linearity (less than or equal to +/- 4 in.)	

Supplied as standard

# Special Customer Requirements (Consult Factory)

Mineral insulated welded stainless steel sheathed cable 0.12" diameter cable 1 to 164 ft. lengths available -67° to 390° F 3,000 psi Output options of 0-10 or 4-20 mA available T.E.D.S. IEEE 1451.4 module Signature Calibration

## Range Codes

<u>Range</u>	Range Code
+/- 0.5 in.	HP
+/- 1.0 in.	HQ
+/- 2.0 in.	HR
+/- 3.0 in.	HS
+/- 4.0 in.	HT



-Not RoHS Compliant

#### How to Order

The order code consists of the product model, the desired range code and the available options.

Sample Code: AY250 HQ Model Code Range Code

HQ L10 Range Code Options Code