

Acculevel Submersible Transducer

56-115-30-100



Specifications

ACCURACY, TEB ³	±0.25 standard or optional ±0.1% FS T.E.B.*		
CUSTOM PRESSURE RANGES	Yes		
AVAILABLE PRESSURE RANGE	0 – 3 thru 0 – 900 ft. WC		
COMPENSATED TEMP. RANGE	-10 to +80°C		
OPERATING TEMP RANGE	0 to +80°C		
FIELD RANGEABILITY	Yes		
PRESSURE OUTPUT	0 – 5 VDC, 0 – 10 VDC 4 – 20 mA, RS485		
TEMPERATURE OUTPUT	RS485		
WETTED MATERIALS	Standard 316L S.S. (opt. Hastelloy C-276), polyamide, fluorocarbon		
CABLE ⁷	Hytrek-jacketed, vented and shielded		
LOAD RESISTANCE (Ω)	mA: <(Supply - 8V) / 0.02A VDC: >4KΩ		
LEVEL RANGE (user specified) ^{1,2}	Infinite between 0-3 thru 0-900 ft. WC		
SUPPLY ^{4,5}	VDC	8-28 VDC	13-28 VDC
OUTPUT	2 wire analog	4-20 mA	
	3 wire analog	0-5 VDC	0-10 VDC
	4 wire digital	RS485	

Wiring Configuration

Configuration	White	Red	Black	Blue	Yellow
2 Wire (mA)	OUT/GND	N/A	+Vcc	RS485A	RS485B
3 Wire (VDC)	GND	+OUT	+Vcc	RS485A	RS485B

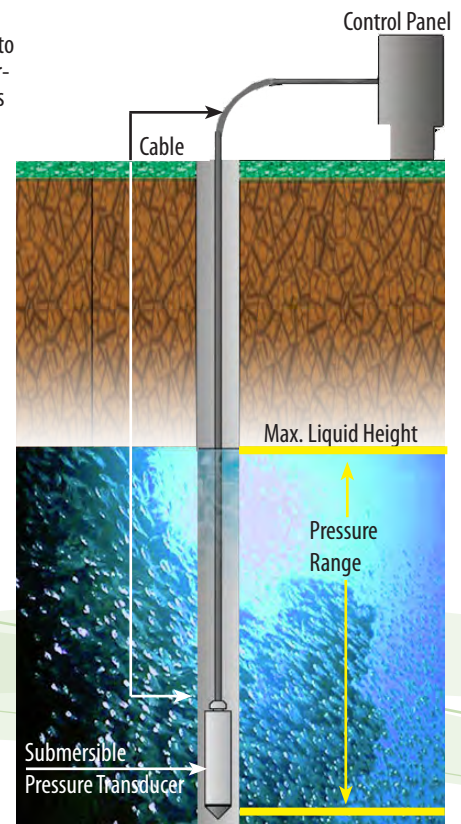
NOTES

- Option: custom calibration for fluids other than water, provided the specific gravity is given.
- Level range may be specified in units of lb/in²(psi), inches WC or feet WC. International Standard conversion of 2.3067 feet WC/psi.
- TEB: Total Error Band; Includes combined effects of non-linearity, hysteresis, non-repeatability, & thermal dependencies over the compensated temperature range, expressed as a percentage of the Basic Range. All intermediate ranges are realized by deranging from standard Basic Ranges of 30, 100, 300 and 900 ft WC.
- At the transmitter; allow for ~.65V per 1000 ft. voltage drop thru the cable.
- Lower supply operation possible with RS485 output only. Consult factory
- Max. continuous length: 1000 ft.
- The drain / shield is connected to the transmitter housing. For best protection against galvanic corrosion, do not ground.

Features

- ▶ 16-bit internal digital error correction
Cost-effective low Total Error Band
- ▶ 316L SS flush-diaphragm sensor standard
Optional Hastelloy C-276 for severe applications
- ▶ User-rangeable analog output insures compatibility as requirements change
- ▶ RS485 modified-MODBUS compatible
Up to 128 transmitters on a single bus
- ▶ Dual (analog & RS485) outputs standard
Simplifies interface to control as well as data collection / telemetry systems
- ▶ Assembled & tested in the USA for uncompromised quality that delivers the highest price/performance value in the world.
- ▶ Advanced media-isolated piezoresistive pressure sensor with advanced error correction techniques

The Acculevel's standard features far exceed those of comparably priced transmitters including ±0.25% FS standard (±0.1% optional) Total Error Band. The ability of the Acculevel to provide this level of performance day after day, over a wide range of operating conditions, makes it ideally suited to environmental monitoring applications such as surface water, streams and reservoirs.



SUTRON CORPORATION

22400 Davis Drive
GS-25F604D SBSA

Sterling, VA 20164
NESDIS Certified

(703) 406-2800
ISO Certified

(703) 406-2801 Fax
EUMETSAT Certified

www.sutron.com
CE Certified

sales@sutron.com
INSAT Certified

page 1
8/4/2011