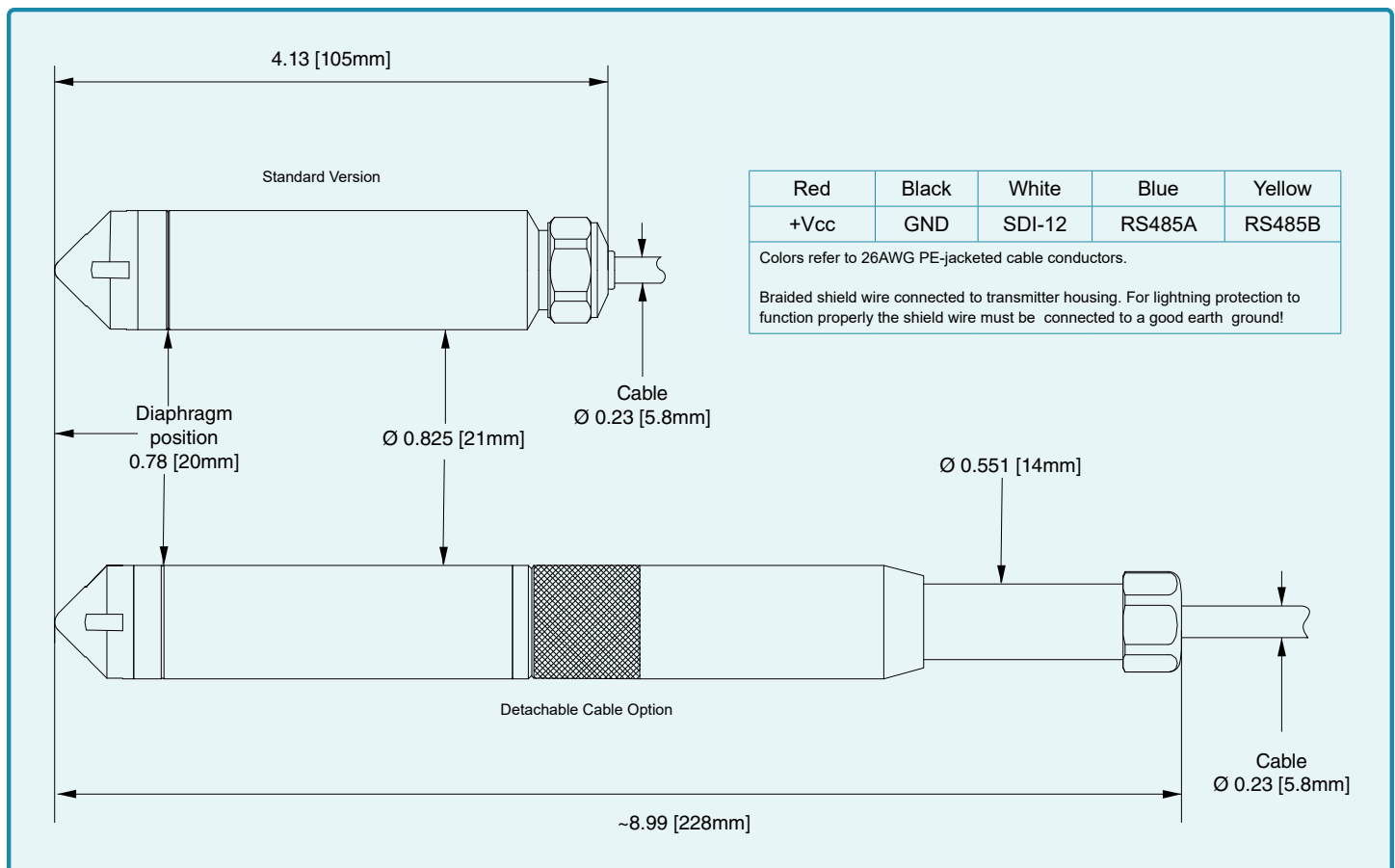


Acculevel SDI

High accuracy SDI-12 level transmitter

FEATURES:

- Standard $\pm 0.05\%$ FS TEB and USGS OSW accuracies available
 - Optional OSW spec on ranges up to 70 ft W.C. from 0...40°C.
- NSF/ANSI 61 and 372 certified construction for use in drinking water applications₇
- 16-bit internal digital error correction for cost-effective low Total Error Band (TEB)₃
- Selectable digital outputs (SDI-12 or RS485) for maximum versatility.
- RS485 modified-MODBUS and SDI-12 V1.3 protocol compatibility.
- 316L stainless construction standard - Optional titanium for severe applications.
- 2-year warranty covers defects in materials and workmanship.
- Lightning protection included at no additional cost.
- Available with optional, removable cable.



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Pressure Ranges ₁	
Relative	Infinite between 0...3 and 0...900 ft W.C.
Absolute	Available on request

1. Level range may be specified in units of bar, mbar, mH2O, psi, ftWC, or inWC

Outputs ₂	
Digital	SDI-12 + RS485
Pressure Resolution	0.0005% FS
Temp. Resolution	< 0.01 °C
Comm. Protocol	SDI-12 V1.3, MODBUS RTU
Baud Rate	1200 bits/s

2. The Acculevel SDI can communicate in either SDI-12 or RS485 at any one time. By default, the Acculevel SDI will ship in SDI-12 mode. A USB Dongle is required to change to RS485 mode.

Accuracy ₃			
	Standard		Optional ₄
	≥10ftWC to ≤330ftWC	< 10ftWC and > 330ftWC	
Total Error Band	±0.05% FS	±0.1% FS	±0.01 ft WC when reading ≤ 10ftWC or ±0.1% of reading >10 ftWC ₄
Compensated Temperature	0 - 50° C		0 - 40° C
Temperature Accuracy	typ. ± 0.3 °C		

3. Total Error Band (TEB) includes the combined effects of non-linearity, hysteresis, and non-repeatability as well as thermal dependencies, over the compensated temperature range.

4. Optional accuracy is written in compliance with USGS OSW specification mandates and limited to a maximum range of 70 ftWC and a compensated temperature range of 0...40° C

Electrical ₅	
Supply	6...32 VDC
Power Consumption	<0.1mA (Sleep)
	< 5.5 mA (active)
Startup Time	< 5 ms (interface ready)
Load Resistance (mA)	<(Supply-6V)/0.0055A
Insulation GND-CASE	> 10 MΩ @ 300 V

5. Nominal values may be higher depending upon cable length. Cable resistance (~70Ω / 1000ft) adds to the supply requirement. In order to insure proper system operation, calculate the minimum required supply voltage (at the source) as follows: MINIMUM SUPPLY VOLTAGE = 6 + 0.022 (CABLE LENGTH x 0.07) VDC

Certifications	
CE	EN50081-1, EN50082-2
NSF / ANSI ₆	61, 372

6. NSF/ANSI 61 and 372 approval applies to both 316L stainless steel & titanium construction with PE & EPDM cable sealing option, which is standard on this instrument unless otherwise specified.

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Environmental	
Protection Rating	IP68
Storage Temp.	-20...80° C
Operating Temp	-10...60° C
Wetted Materials	316 L Stainless Steel
	Titanium Optional
	Polyamide
Cable & Sealing ₇	PE & EPDM for water / wastewater
	Hytrel & Viton for hydrocarbons
	Tefzel & Viton or EPDM as required for chemical interaction

7. NSF/ANSI 61 and 372 approval applies to both 316L stainless steel & titanium construction with PE & EPDM cable sealing option, which is standard on this instrument unless otherwise specified.

Optional Accessories

