TEL-TRU® TEMPERATURE SOLUTIONS

MODEL SD3 SANITARY DIGITAL THERMOMETER

The Tel-Tru SD3 digital thermometer is designed to deliver industry-leading value. It is rugged and dependable for use in sanitary applications, and is available in a wide range of configurations to meet customer needs. All models are NIST traceable and include a lifetime battery that lasts a minimum of 8 years.

The SD3 meets 3-A Sanitary Standard 74-07 requirements for sensors and sensor fittings and connectors used in milk and milk products. No thermowell is required because a Tri-Clamp® sanitary fitting is integral to the thermowell, thus reducing installation and instrument costs.

FEATURES:

- Heavy duty 3" (77mm) 304SS hermetically sealed case
- Digital sensor for maximum precision
- Response rate of 1 second
- 8-year lithium battery
- Available in wide range of configurations
- High-visibility 0.4" (10mm) tall LCD display
- Serial number on each unit for identification
- NIST traceable calibration certificate available
- Factory programmable for °F or °C

SPECIFICATIONS:

Environmental

Protection:	IP67
Traceability:	NIST traceable
Operating Temp. Range:	-67°F to 302°F (-55°C to 150°C)

Mechanical

Probe lengths:	1.625" to 22.5" (4.13cm to 57.15cm)
Probe diameters:	.250" (.64cm)
Probe material:	316SS
Housing:	Heavy duty 3" (77mm) 304SS hermetically sealed case
Lens:	Glass (standard) or Polycarbonate
Digit Size:	High-visibility 4 digit, 0.4" (10mm) tall
Mounting Type:	Adjustable Angle, Back Connect, Bottom Connect
Connection fittings:	316SS Tri-Clamp fitting sizes .75", 1.5", 2", 3", and 4"
Ambient Temp. Range:	20°F to 120°F (-7°C to 49°C)
Battery:	8-year lithium battery*
Warranty:	2 years from shipment

Electrical

Sensor:	High-precision digital temperature sensor
Accuracy:	±0.1 °F/C (maximum) from -4°F to 122°F (-20°C to 50°C) ±0.2 °F/C (maximum) from -40°F to 212°F (-40°C to 100°C) ±0.3 °F/C (maximum) from -67°F to 257°F (-55°C to 125°C) ±0.4 °F/C (maximum) from -67°F to 302°F (-55°C to 150°C)
Display Resolution:	0.1°F/C
Refresh Rate:	1 second

Available in three colors

** Battery life expectancy is eight years at normal room temperature.*

Tri-Clamp is a registered trademark of Alfa Laval Inc. Corporation.

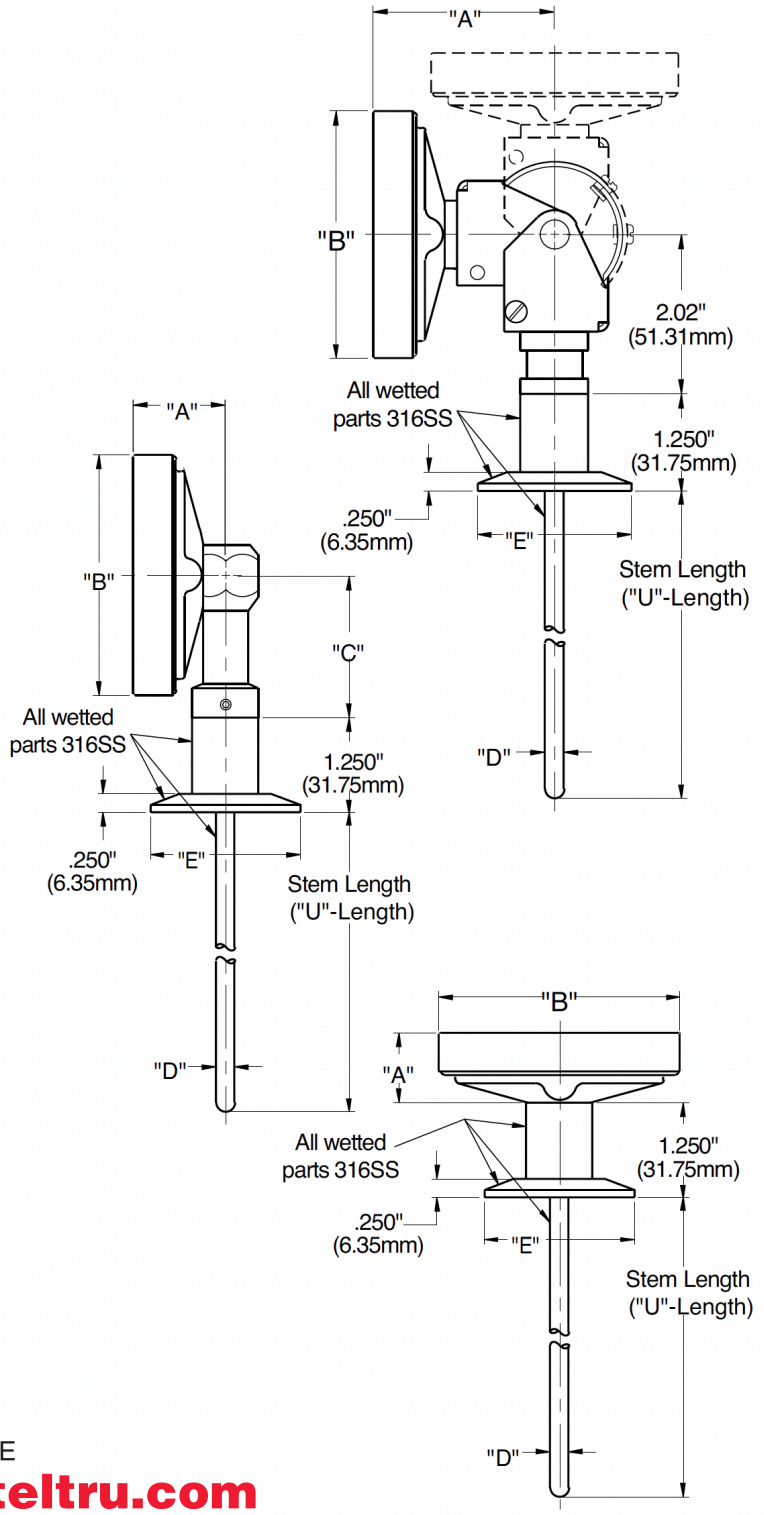
HOW TO ORDER:

A	**Case Size and Mounting - Sanitary**	
	SD3AX	3" Adjustable Angle
	SD3BX	3" Back Connect
	SD3CX	3" Bottom Connect at 6:00 Position
	SD3DX	3" Right Connect at 3:00 Position
	SD3EX	3" Left Connect at 9:00 Position
	SD3FX	3" Top Connect at 12:00 Position
B	**Range**	
	DV1	-67/302ºF
	DZ1	-55/150ºC
C	**Lens Color**	
	1W	White Dial
	1B	Blue Dial
	1R	Red Dial
D	**Lens Material**	
	1	Glass (Std)
	3	Polycarbonate
E	**Probe Type and Diameter**	
	P22	316SS Blunt, .250" Diameter
F	**Probe Length**	
	IC	1.625"
	02	2.5"
	CH	4.5"
	AT	7.5"
	DC	10.5"
	EC	13.5"
	FJ	16.5"
	JQ	22.5"
G	**Connection**	
	3-05	3/4" Tri-Clamp (316LSS) *
	3-10	1½" Tri-Clamp (316LSS) **
	3-20	2" Tri-Clamp (316LSS)
	3-25	2½" Tri-Clamp (316LSS)
	3-30	3" Tri-Clamp (316LSS)
	3-40	4" Tri-Clamp (316LSS)

** used on both 1/2" and 3/4" lines*
*** used on both 1" and 1-1/2" lines*

Ordering Example: *Model SD3, 3" Bottom Connect (6:00), range -55/150°C, red glass lens, probe 316SS blunt, .250" diameter, 4.5" length, 2" Tri-Clamp connection*

A			B		C	D	E			F		G		
S	D	3 C X	D	Z 1	1	R	1	-	P 2 2	C	H	3	-	2 0



APPLICATIONS:

- Food and Beverage
- Pharmaceutical/Biotech
- Petrochemical
- Water/Wastewater Processing

TEL-TRU® TEMPERATURE SOLUTIONS

SHOP ONLINE
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TRACEABLE TO NIST

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