



- Spring loaded temperature sensor for use in sanitary thermowell
- Both RTD and thermocouple versions available
- No exposed threads
- Connection head seats tightly against O-ring
- All sanitary connections available
- Various surface finishes (Ra) available on external surfaces
- Configurable with temperature transmitter (PC programmable and HART®) and connection head

Weed Instrument Company has expanded on its already successful model 451. The model 452 is designed to be used in applications where spring loading is desired for fast temperature response when used in a sanitary thermowell.

Model 452 features no exposed threads where bacterial growth or contamination can be a problem. Multiple

configurations are possible, including dual sensor versions for back up and comparative measurement, options for protection heads and temperature transmitters locally mounted, and different sanitary cap sizes to match up with different thermowells. In addition, multiple surface finishes can be specified on the external probe housing.

Weed Instrument offers a complete line of sensors for

sanitary applications, including other non-intrusive and probe style designs.

Weed Instrument Company specializes in custom temperature sensing solutions. Please contact us for any of your application specific needs.

# Model 452 Spring Loaded Sanitary RTD Sensor

## ORDERING INFORMATION

Model	Description
452	Spring Loaded Sanitary Temperature Sensor
452I	Spring Loaded Sanitary Temperature Sensor Direct Mount(NPT Threads, No Connection Head)

Code	RTD / Thermocouple Type
01B	100 $\Omega$ Platinum RTD, TCR 0.00385055 DIN B
10B	1000 $\Omega$ Platinum RTD, TCR 0.00385055 DIN B
01BH (WW)	100 $\Omega$ Pt RTD, TCR 0.00385055 DIN A High Accuracy Wire-wound element
TU	Type T Thermocouple, Ungrounded Junction

Code	Number of Leadwires
2	2-wire RTD or 2 wire Thermocouple
3	3-wire RTD
4	4-wire RTD or Dual Thermocouple
6	Dual 3-wire RTD
8	Dual 4-wire RTD

Code	Sheath Diameter
C	0.25"

Code	Sheath Length
xxx.x	In inches

Code	Sanitary Cap Size	Actual Dia.
A0.5B	1/2" Sanitary Cap	0.984"
A0.75B	3/4" Sanitary Cap	0.984"
A1.0B	1" Sanitary Cap	1.984"
A1.5B	1 1/2" Sanitary Cap	1.984"
A2.0B	2" Sanitary Cap	2.516"
A2.5B	2 1/2" Sanitary Cap	3.047"
A3.0B	3" Sanitary Cap	3.579"

Code	Leadwire Length
Zxxx	Lead wire length in inches



At Weed Instrument Company, we provide a complete line of sanitary and high-purity temperature sensors for accurate, reliable temperature measurement. Our products offer the real-life functionality to keep manufacturing processes tightly within specification. They excel in tough applications such as bioreactors, cell culture, fermentation, blending, vaccine production, sterilization and more. Weed has earned a reputation for providing accurate, reliable sensing devices for both everyday dependability and critical temperature situations.



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